

JANUARY 1999

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WORLDWIDE TV-FM DX ASSOCIATION
PO BOX 501 - SOMERSVILLE, CT 06072



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06032-2735 06

[illegible]

WTFDA MAILBOX

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Mike Bugaj

lkon@netcom.com

NEW MEMBER

Blaine Thompson, Ft. Wayne IN

RENEWALS

Well, here we go for another year. My hope this year is that the Y2K problem we all face turns out to be not as bad as some people predict. We will all find out in the next 12 month, so, stay tuned. Meanwhile, the digital TV scene is pressing ahead, and the folks listed here will be able to read about events as they unfold in the VUD along with the rest of us: Matt Sittel, Lenny Goldberg, Marvin Shultz, John Jefferson, Dr. Bruce Elving, George Rogers, John Kosinski, Randall Trapp, Eric Bueneman, Fernando Garcia, Bill Nollman, Ted Liszewski, Steve Branch, George Hamer, Dave Pomeroy, James Rogentine, David Wurl, Giovanni Bellabarba and John Adams. And special congrats go out to Jim Thomas, Bill Nollman and their wives. Both WTFDAers have recently bought new homes.

MAILBOX MERCHANDISE MALL

Randy Miltier, from Ashland OR is looking for a TEKNIKA-6510 UHF/VHF tuner. This looks like the toughest request I've had so far. Someone, somewhere must have one of these sitting in the basement gathering dust, so now is a good time to go down there and dig through the dust and find it. Randy's email address is miltier@jeffnet.org. But if you don't have email you can write me and I'll get the two of you together.

ANTENNA GIVEAWAY A SUCCESS!

Recent mail received from Dennis Smith in Santa Barbara mentions that he was able to get the antennas that Eric Sundius was giving away. Dennis also mentioned that he would consider doing a Bandscan column if he had the proper equipment. Dennis has an unusual request: "One more item. Among the remnants still around since my old Dxing days is an audio cassette tape received from a dxer when all I had was a reel-to-reel recorder. I eventually got a cassette recorder. However, the tape is labeled with everything but his name and by now I don't remember. Hopefully, this note in the Mailbox could identify him? (The tape is marked) "TV-DX 1971-72, WBODSA/7 Great Falls MT; DX received at Box 93 Rt2 Maple Plain MN 55359." Between station IDs, the dxer used background music behind his talking which sounded like portions of Capriccio Espanol by Rimski-Korsakoff (symphony orchestra)". So to recap, if you are the dxer who sent Dennis a cassette tape around 1971-72 that had concert music between station IDs heard at Maple Plain, MN, Dennis would like to hear from you.

HAPPY ANNIVERSARY

January marks the first anniversary of the WTFDA chat on the internet. Since Fernando and I had our first chat on IRC last January, we have had 22 WTFDA'ers use the channel as well as a few TV/FM dxers who are not members. Summer was a busy season on the net as we dxd Es and tropo openings as they happened. We have also had a lot of fun this past year, and expect that it will continue into next year. I realize that, for one reason or another, some WTFDAers can't use mIRC on their systems. One idea I have been hashing around is to possibly have a WTFDA chat occasionally by using one of the free chat rooms on the Delphi web site (www.Delphi.com). I would welcome any comments anyone might have on that.

MORE MONSTER PARABOLICS

Here's another story taken from the internet about one of those giant parabolic dishes. I hope you enjoy reading these as much as I do.

"As I recall, it was a Canadian gentleman named Stan Hoskins who first implemented one of these monster arrays. Stan built the array in North Bay, ON (near where the Dione quintuplets were born) in the 50s. This "antenna" was to be used to receive American television programming from Buffalo, NY a mere 275+ miles away. The antenna was successful to a point, providing useful signal a majority of the time on channel 2, WGR-TV. I am not sure if it was used for other channels. It was built with high telephone poles over a width of about 550 feet I think. I remember seeing this array when I was in effect replacing it by installing a microwave system to provide the same signals but now received in Toronto, much closer to the Buffalo transmitters. Sruki Switzer was involved with this and the North Bay system and may have some more info on Stan and his inventions. Similar to other large parabolic arrays of this type, the "probe" antenna was a yagi located close to the ground and aimed at the particular spot on the reflector surface required. As I recall we used to use a low gain antenna to find the correct spot on the reflector surface for the desired signal and then replace it with a higher gain (eg narrower beamwidth) antenna. Finding the right spot was a time consuming activity.

I used these parab arrays (as we called them) at Barrie and Orillia, ON (north of Toronto) to receive signals from Buffalo but at a much relaxed 140 miles distance. They worked very well but were forever suffering from broken wires in the reflector that needed splicing. Those of you who used these monsters will no doubt remember how the reflector wires would "sing" in a stiff wind. It added a particularly eerie dimension to working at the headend during a strong wind and rain (thunder)storm. The directivity (read that co-channel rejection) of these antenna systems was simply spectacular, especially at low (ch2-6) channels. Nothing could match them".

WHY DON'T STATIONS GIVE IDS ?

Here is a post from the rec.radio.broadcasting newsgroup on the internet. First we have the dxer's question and following that is a reply from someone in the radio business. First, the question:

"The worst problem with dxing is that radio stations call themselves Star-109 or whatever else they want all hour long, and then real quietly, a fast-talking monotone voice slips in between two commercials somewhere in the middle of the hour with "WXYX, Akron". This stealth ID sounds like the station is ashamed of its real call sign. This can be very frustrating when you're dxing, especially on FM. Sorry stations, but the whole reason for a radio station on AM, FM, SW, VHF or anywhere to give a legal ID is so a listener can EASILY identify the station! If the FCC won't fix this problem by requiring IDs to be clear and distinct and run twice an hour like they used to, then maybe Arbitron and the other ratings companies could put a stop to this practice by not allowing any slogans or nicknames when tabulating diaries! I guarantee that would make the stations drop their "Z-Rock" slogans pretty fast and start using their calls every couple of minutes. That would be such a nice change."

"Don't think so. I think you'll find that the purpose of the call sign was so the FCC monitoring sites could identify the station. I really don't think the FCC or its predecessor gave a da*n about listener' ability to identify anything." Regarding Arbitron: "Then, Arbitron would be influencing the media they're supposed to be measuring. It isn't Arbitron's place to tell stations what to program or how to identify themselves. Their responsibility is to accurately measure who listens to what...not to get involved in the station's business. Stations will do whatever it takes to get ratings. Dxers are such a tiny segment of the radio audience that they're irrelevant to the process. By their nature, they're out of the market, so they won't ever be counted in a survey. They'll never buy products from the local retailers. All they do is make up lists of stations they've heard. It's a nice hobby, but has no relevance to what we do in programming."

That's all for January! See you all next month and DON'T FORGET TO WRITE! -Mike

WTFDA SPECIAL REPORT

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1998 FM E-Skip Summary

"better than last year, but mediocre at best"

THE TOP 10 SKIP DAYS OF 1998:

DATE	TOT	#REP	AVG	MUF	HIGH	TV RANK
JUNE 1	508	20	25.40	107.9	103	1
MAY 28	259	12	21.58	111.9	105	-
AUGUST 15	194	9	22.73	107.9	53	-
JUNE 28	190	18	10.55	107.9	36	7
JULY 12	101	9	11.22	107.9	36	-
JULY 31	85	7	12.14	107.9	40	3
JUNE 29	85	12	20.83	107.1	40	2
JUNE 14	70	6	11.67	107.9	41	5
JULY 13	70	8	8.75	107.9	12	8
AUGUST 4	52	8	6.50	106.7	14	-

KEY:

TOT: total no. of FM loggings
#REP: number of DXers reporting skip
AVG: average number of loggings per DXer (tot / rep)
MUF: maximum useable freq.
HIGH: the most loggings reported by one DXer for that day

SKIP RESULTS BY MONTH:

KEY:
TOT: total no. of FM loggings for month
#DAYS: no. days with FM Es that month
AVG: average number of loggings per DXer (tot / days)
AVG MUF: average MUF for month
RANK: This month/year's ranking compared to the past 18 seasons.

MONTH	TOT	#DAYS	AVG	AVG MUF	RANK
JANUARY	40	3	13.33	97.90	-
APRIL	46	4	11.50	101.30	4 th
MAY	488	9	54.22	100.88	7 th
JUNE	1081	20	54.05	100.84	10 th
JULY	354	15	23.60	100.34	14 th
AUGUST	323	9	35.89	101.70	5 th
TOTAL '98	2332	60	38.87	101.76	14th

SEASON BREAKDOWN BY MUF

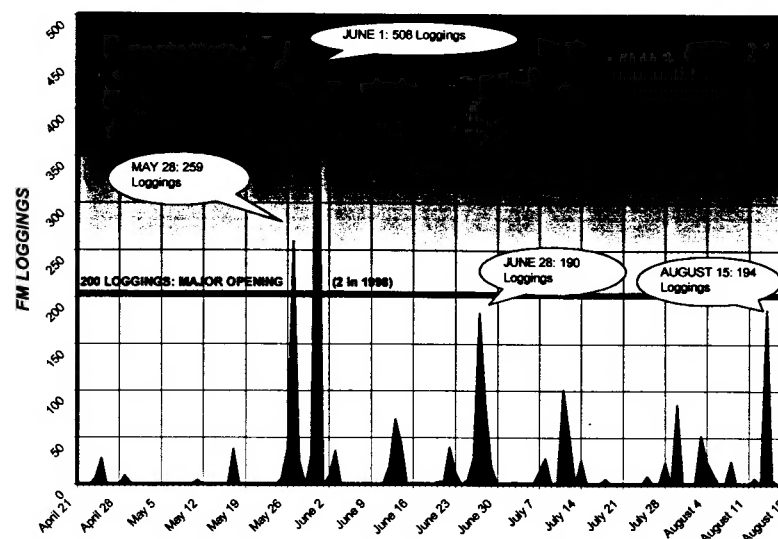
MUF	Openings	% season	MAY	JUNE	JULY	AUGUST
107.9 +	2	3.33%	2	0	0	0
Up to 107.9	12	20.00%	3	4	2	1
Up to 105.1	25	41.67%	4	9	7	2
Up to 100.1	31	51.67%	5	10	7	6
Up to 98.5	32	53.33%	5	10	8	6
Up to 96.1	41	68.33%	7	14	10	7
Up to 92.1	58	96.67%	8	19	15	9
Up to 88.1	60	100.00%	9	20	15	9

KEY:

MUF: Maximum Useable Frequency for FM skip
OPENINGS: The number of days on which FM skip MUF reached that high in 1998
% SEASON: The percentage of total FM skip days that saw an MUF this high
MAY, JUNE, JULY, AUGUST: The number of days during this month on which the MUF got this high

Skip loggings are taken from DX reports in Northern and Southern FM DX columns, up to and including the December 1998 VUD. Rankings are in comparison to the period 1981 - 1998 (the past 18 years).
NOTE: Many thanks to Roy Barstow, who kindly provided VUDs from the period 1972 - 1979 to add to my records. I have completed going through most of these VUDs, but have not incorporated them into the all time records yet. The updates may appear in another Special Report soon. If you have VUDs in the period 1979 - 1982, before 1972, or August 1978 and August 1979, and are interested in lending them to me, or recording skip days during that period for this study, please contact me!

SPECIAL REPORT - 1998 FM E-SKIP REPORT



E-SKIP IN THE 1990s:

YEAR	TOTAL	# DAYS	AVER	APR	MAY	JUN	JUL	AUG	SEP
1998	2361	60	39.35	46	488	1101	366	330	0
1997	1371	45	30.47	0	66	672	349	284	0
1996	2743	67	40.94	3	489	959	1180	104	0
1995	3746	74	50.62	2	406	891	2249	143	0
1994	8567	84	101.99	227	1454	5158	1574	153	1
1993	2688	55	48.87	0	57	1762	809	46	11
1992	2674	44	48.61	0	840	1523	140	99	0
1991	4003	78	51.32	0	483	1064	1929	356	10
1990	4980	68	73.24	0	2019	1603	1258	74	13

1998's skip summer was a definite improvement over 1997. However, being that '97 was the worst ever in my records, that is not a tremendous feat! As you can see from the statistics above, no month really stood out. The only month that did really well in comparison to what should be expected for that month is August. Many DXers did note the FM going later than the standard. In fact, August 15th was the fourth most productive opening of the season, awfully late for such a distinction. June 1st really stands out this season as the best opening by far. Comments from some DXers seem to confirm that date as their personal best this year. June 1, 1998 will rank fairly high on the all-time skip day list, bringing at least one bright spot to this season. Disappointing, however, were the long gaps in skip activity during June & July, months that normally should be more active. This makes the third consecutive summer in which the activity has not exceeded "mediocre" levels. Maybe we were spoiled by the great seasons of the mid 1990's! Let's hope 1999 is a big improvement. Happy New Year!

Special Report: 1998 TV Es summary

Top openings of 1998:

Date	Total	Reporters	Avg.	MUF	Max	FM Rank
1 June	111	15	7.40	2	24	1
29 June	111	12	9.25	88	36	7
31 July	90	8	11.25	117.9	28	6
26 May	77	12	6.42	88.0	22	
14 June	72	11	6.55	88.0	29	8
4 June	59	9	6.56	117.6	20	
28 June	53	11	4.82	117.2	17	4
13 July	49	12	4.08	88	9	9
13 June	48	13	3.69	144.0	17	
29 May	47	7	6.71	6	16	

Total: Total number of IDd Es loggings made during calendar 1998 and reported in Eastern TV DX and Western TV DX during 1998.

Reporters: Number of DXers reporting at least one Es signal (including unIDs) on this day.

Avg.: Average number of loggings per reporter.

MUF: Highest channel or frequency on which Es signals (not necessarily TV signals) were reported on this day.

Max: Maximum number of IDd TV Es loggings made by one reporter.

FM Rank: Rank of this date (in total number of Es loggings) in Greg Coniglio's FM Es summary.

The best openings this year were comparable to the best of 1996, and much better than last year. Correlation with FM openings was also better than usual. The MUF actually reached channel 8 on two days. (27 June and 15 August - the latter unusually late for high-band skip)

Monthly Breakdown:

Month	Es Loggings	Es Days	Loggings per day
January	98	16	6.13
February	24	5	4.60
March	15	6	2.50
April	26	11	2.55
May	333	22	15.14
June	723	29	24.93
July	454	25	18.16
August	263	21	13.45
September	1	1	1.00
October	6	2	3.00
November	1	1	1.00
Total:	1,958	139	14.09
1997:	1,396	136	10.26
1996:	2,954	178	16.60
1995:	3,391	160	
1994:	2,253	118	
1993:	1,585	102	

Well, 1998 wasn't a good year, but it was a whole lot better than dismal 1997. No month was totally skip-free (I didn't have any December openings in my database) but September and November came dangerously close. On the other hand, the late-winter totals in January, February, and March were quite good. August was also the best in years, supporting the theories of some that the Es season is getting later and maybe "flattening out".

1998 TV Es Summary, continued:

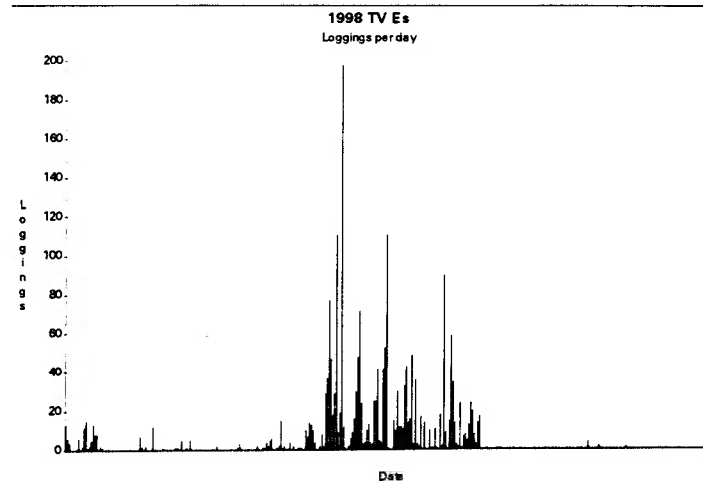
Pests:			
WESH	39	WEDU	28
WPBT & KGAN	36	WBAY & WBRZ	26
WCBD	32	WDTN, WSB,	22
		KENW, & KTVK	
WJBK & KNAZ	31	WSJK, WUND,	21
		KOTA	
KWGN	29	KXMA, KGFE, &	20
		KPRC	

By channel:

Channel 2	WESH-FL	39
Channel 3	WEDU-FL	28
Channel 4	WUNC-NC	16
Channel 5	WRAL-NC	13
Channel 6	KRMA-CO	7

No surprises here, except maybe the number of ties<grin>. (I gave up trying to find enough room to fit all the channel numbers in the table. Just rest assured that all stations listed in the first table are on channel 2 except WEDU, KENW, KTVK, and KOTA.) I did note that new station WBKP (5) was reported five times. This station is well situated for many DXers; if you see WJMN (3) or WLUC (6), or the Duluth or Thunder Bay stations, be sure to check for this one.

To some degree, this year's pests table (and for that matter, last year's) reflects how one active DXer, in this case Danny Oglethorpe, can warp the tables. The first year I compiled a pests list, before Danny joined the WTFDA, no station northeast of Paducah made the list. This year, Danny and Pat Dyer are responsible for the vast majority of the loggings of WJBK, WBAY, and WDTN.



Here we have it - 1998 was a vast improvement over 1997, though we still have a way to go to catch up to the mid-1980s. Here's hoping everyone had a great Christmas, and enough time to hang out with the family between all the skip openings.

73 Doug
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FM NEWS

JANUARY 1999

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<p>KEY TO ABBREVIATIONS: &: satellite programming AF: New frequency allocation accepted for filing for a new FM license AFA: American Family Association CC: call letter change CL: city of license change CX: a construction permit has been canceled C1,C2,etc.: a change in status to that FM license class DA: directional antenna DE: station has been deleted FC: format change GA: granted amendment to the table of FM allocations GE: granted extension of construction permit</p>	<p>GX: granted replacement of expired permit LC: license to cover filed (means station is ready to come on air) MC: multiple-city legal ID NC: no change yet on a reported change/permit ND: non-directional antenna NO: not on the air NS: new station granted NW: new station signs on OSA: one-step application granted for change PA: proposed amendment to change FM table of allocation PC: power change on the air for increase, "<" for decrease, when known)</p>	<p>PG: power change granted (">" for increase, "<" for decrease, when known) QC: frequency change occurred QG: frequency change granted RA: silent station returns to air RE: station requests extension on permit RX: station requests replacement of expired permit SG: slogan change or update SI: station is silent XA: dismissed amendment to FM allocations XC: transmitter site change occurred XG: transmitter site change granted</p>
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UNITED STATES

ALABAMA:

Cullman: WRRS 101.1 CC (ex WFMH), FC to contemporary Christian (Birmingham)
Eufaula: WULA 92.7 CX CP for XC (to 31-54-30 / 85-09-51)
Holly Pond: WFMH 95.5 CC (ex WXXR) FC to ABC real country (&) (Cullman)
Montgomery: WHHY 101.9 FC to CHR "Y 102" CC (ex WJCC)

ALASKA:

Houston: KADX 94.7 NO-GX (4th)
Juneau: KAMT 100.7 NO-GE (4th)
Juneau: KAKZ 102.7 NO-GE (4th)
Juneau: KAKZ 102.7 NO-GE (4th)
Valdez: KVAK 93.3 PG 1200w, -1958 ft.



ARIZONA:

Chino Vly: KPBZ 103.9 CC (ex KAKP)
Clifton: KWRQ 102.1 FC to hot AC "Sunny" (&)
Glendale: KZPZ 103.5 CC (ex KWVCY), FC to regional Mexican (Phoenix)
Oro Valley: KOAZ 97.5 PG> 6 kW, 151 ft, XG: 32-19-45 / 111-03-40
Payson: KESP 101.1 PG< 82 kW, 1069 ft.
Red Mesa: KRMN 89.7 NW, ethnic & variety
St. Johns: KWKM 95.7 NO-GE

ARKANSAS:

Atkins: KRRD 99.3 CC (ex KBHY)
Gurdon: KYXK 92.7 OSA for 106.9, C3, 17.5 kW, 302 ft.
Harrisburg: KKEY 95.9 CC (ex KBGQ), NW, oldies (expected on the air in Feb. 1999)
Hot Springs: KSBC 90.1 PC< 7.8 kW, 443 ft, C3, XC: 34-37-31 / 93-00-37
Pangburn: *NS 99.1 AF
Piggott: KBOA 105.5 FC to adult stds (&)

CALIFORNIA:

Arnold: KBYN 95.9 PC 980w, 807ft, XC: 38-22-42 / 120-11-36
California City: KCEL 106.9 NO-RE
Felton: KHIP 93.7 NW, modern AC // KCUD
Johannesburg: KRAJ 100.9 CC (ex KBHM)
Kerman: KKPW 94.3 CC (ex KTA) "Power 94 The Party", PG> 6 kW
Lompoc: KAKV 106.7 LC
Long Beach: KBUE 105.5 PC> 3 kW, 466 ft.
Long Beach: KLON 88.1 PC> 35 kW, DA, B
Merced: *NS 94.1 6 kW, 328 ft.
Modesto: KEJC 93.9 NW, country

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California:

Mt. Shasta: KMJC 107.9 FC to adult alternative
Newberry Sps: KAWU 103.7 PG 6 kW, 282 ft, XG: 34-53-07 / 116-53-45
Oakdale: KHOP 95.1 adds Bob & Tom
Palm Springs: KPLM 106.1 inc. to 397 ft.
San Rafael: KJQI 100.7 FC to ad. Stds "Joy"
Santa Ana: KWIZ 96.7 PC> 6 kW, 203 ft, DA

COLORADO:

Canon City: KSTY 103.9 QG to 104.5 - 6 kW, 46 ft, XG: 38-18-54 / 105-12-40
Evergreen: KXPK 96.5 adds Howard Stern
Glenwood Sps: KKCH 92.7 inc. to 2499 ft.
Hayden: *NS 89.7 AF
Holyhoke: *NS 92.3 100 kW, 558 ft.
Ignacio: KUTE 90.1 NW, info, variety, and Native American programming
Julesburg: *NS 96.5 100 kW, 558 ft.
Sterling: KKNQ 104.7 FC to WW1 country (&)

DELAWARE:

Lewes: WXJN 105.9 adds JRN country overnights (&) (otherwise // WICO)

FLORIDA:

Coral Cove: WYNF 107.9 PG> 47 kW, 508 ft, XG: 27-09-03 / 82-27-51
Coral Gables: WHQT 105.1 XG: 25-58-03 / 80-12-34
Cross City: WKZY 106.9 CC (ex WDFL)
Crystal River: WAQV 90.9 NW, cont. Christian // WHIJ
Holiday: WSUN 97.1 CC (ex WLVU)
Homestead: WRGP88.1 NO-RX (3rd)
Jensen Bch: WMBX 102.3 PC> 10 kW, C1
LaBelle: *NS 88.3 3 kW, 161 ft, DA
Marianna: WTYS 94.1 CC (ex WBNF), FC to southern Gospel
Melbourne: WCVD 95.1CX CP for 253 ft.
Niceville: WNCV 100.3 PC> 3.5 kW, 440 ft, XC: 30-24-50 / 86-37-40
Panama City: WJTF 89.9 NO-GE
Sebring: W214BA 90.7 NS-27w: WJIS 88.1
Sebring: WWLL 105.7 CC (ex WYMR), FC to classic rock (adds John Boy & Billy) "Wheels"
Union Park: WPOZ 88.3 CC (ex WEAZ) "Positive Hits"

GEORGIA:

Alma: WAJQ 104.3 PG> 4.5 kW, 371 ft.
Clayton: WRBN 104.1 PC> 190w, 1296 ft.
Fayetteville: WHTA 97.5 NC to 6.6 kW, 636 ft, RE (3rd)
Jasper: WBCS 88.3 CC (NS)
Jesup: WIFO 105.5 NC to 25 kW, 308 ft, DA, C3, GE
Perry: WPGA 100.9 PC> 3.3 kW, 446 ft.
Reidsville: WRBX 104.1 PG< 4.9 kW, 361 ft.
Ringgold: WMPZ 93.7 PC> 4.9 kW, 302 ft.
Rome: WKCX 97.7 PC> 4.3 kW, DA
Roswell: WAMJ 107.5 OSA to C3, 25 kW, 328 ft, XC: 33-55-54 / 84-20-43
Washington: WXKT 100.1 CC (ex WLOV)

HAWAII:

Kailua: K211DO 90.1 NS-16w(v): KAWZ-ID
Lihue-Kauai: KAWV 98.1 NO-RX

IDAHO:

Chubbuck: KLLP 98.5 CC (ex KRSS), FC to soft AC "K-Lite" (Pocatello)
Island Park: KWYS 102.9 LC, CC (ex KEZQ), FC to Radio 1 country (&) "Yellowstone Country"
Shelley: KBJX 107.9 CC (NS)

ILLINOIS:

Arlington Hts: WCBR 92.7 FC to CHR "Kiss FM"
Bethalto: WFUN 95.5 to carry St. Louis Ambush soccer
Cairo: WBEL 88.5 CC (NS)
Centralia: WRXX 95.3 FC to WW1 70's oldies (&)
Chicago: WGCI 107.5 PG< 3.7 kW, 1548 ft, XG: 41-52-44 / 87-38-08
Clifton: *** 107.3 PA: add class A
Colchester: *NS 104.1 6 kW, 328 ft.
Decatur: WYDS 93.1 SG "93.1 The Party"
Freeport: WNIE 89.1 NO-GE (2nd)
Geneseo: WAXR 88.1 PG> 34 kW, (v), 328', C2
Golconda: WDXR 94.3 SG "The Cool Fox"
Henry: WRVY 100.5 NW, classic hits
Kankakee: WBRO 92.7 FC to CHR "Kiss FM" (// Arlington Heights) (Chicago)

Kankakee: WAWF 88.3 NO-GX
LaSalle: WNIW 91.3 NO-GE (2nd)
Lincolnshire: *NS 88.1 150w, 49 ft, DA
Marion: WDDD 107.3 adds Nashville Nights
Mt. Sterling: WLRT 106.7 CC (ex WBRJ)
Mt. Vernon: WPAO 90.5 PC> 500w, 208 ft.
Nashville: WNSV 104.7 PG> 6 kW
Oglesby: WALS 102.1 adds ABC country (&)
Oregon: WOXM 106.1 NO-RE (5th)
Ottawa: WVGW 89.9 FC to AFA c. Christian (&)
Pana: WXKO 100.9 adds Branson cntry (&)
Pekin: WCIC 91.5 PC> 47 kW, 505 ft, DA, XC: 40-33-28 / 89-34-04
Pickneyville: WCCZ 104.3 NO-RE (2nd)
Ramsey: WTRH 93.3 CC (ex WJLY) "The Road Home"
Ramsey: WJLY 88.3 CC (NS)
Rantoul: *** 103.3 PA: add class A
Rockton: WRWJ 103.1 adds JRN soft AC (&)
Shelbyville: WEJT 105.1 adds Delilah (Decatur)
Sterling: WNIQ 91.5 NW, info, jazz, classical

INDIANA:

Greensburg: WAUZ 89.1 PG< 800w(v), 518 ft.
Hartford City: *NS 88.1 NO-RE
South Bend: WNDV 92.9 CC (ex WNDU)
Veedsburg: WKLO 92.9 NO-RE (4th)



IOWA:

Ankeny: KYSY 106.3 PC> 18 kW, C3
 Dubuque: KXGE 102.3 adds Bob & Tom
 Keokuk: KRNQ 96.3 NO-GE (5th)
 Keokuk: KOKX 95.3 NC to 100 kW, 794 ft, C1, GX (3rd)
 Oskaloosa: *NS 90.5 AF
 Ottumwa: KOTM 97.7 NC to 18.5 kW, 380 ft, C3, XC, GX
 Sageville: KIYX 106.1 LC
 Sibley: *** 104.3 PA: add class A
 Sioux Rapids: *** 98.3 PA: add class A

KANSAS:

Arkansas City: KLPQ 102.5 NO-RX (2nd)
 Cawker City: KZDY 96.3 NW, classic rock (&)
 Colby: KWGB 97.9 NW, CD country (&)
 Columbus: KJML 105.3 PC> 12.5 kW, 289', C3
 El Dorado: KBTL 88.1 NW, variety
 Emporia: *NS 89.7 AF (BBN)
 Humboldt: KINZ 94.3 NW, classic hits "Z 94.3"
 Hutchinson: KSKU 97.1 NW, CHR, CC (ex KLSI)
 Lyons: KKKU 106.1 CC (ex KSKU), FC to country "Kix" (Hutchinson)
 Medicine Lodge: KSN5 91.5 NO-RE
 Ottawa: KRBW 90.5 PC> 430 w.
 Topeka: K209CR 89.7 NS-99w(v): WPCS-FL
 Wichita: KKRD 107.3 increase to 879 ft., XG: 37-46-25 / 97-30-54
 Wichita: KEYN 103.7 increase to 879 ft., XG: 37-46-25 / 97-30-54
 Winfield: KAZY 95.9 FC to classic hits

KKRD
 107.3
 Wichita's #1 Hit Music Station

KENTUCKY:

Beaver Dam: WKLX 100.7 NO-GE (4th)
 Carlisle: WSTL 92.1 CC (ex WVCN) "Star 92"
 Clinton: WCBF 102.1 SG "The Cool Fox"
 Hodgenville: WKMO 106.3 adds CD Country (&)
 Keavy: WVCT 91.5 inc. to 380 feet., XG: 86-59-01 / 84-08-01
 Paducah: WDDJ 96.9 SG "Electric 96.9"
 Reidland: WZZL 106.7 adds Bob & Tom
 Sayersville: WRLV 97.3 adds Young & Elder

LOUISIANA:

Alexandria: KOUZ 89.9 LC
 Blanchard: KRVQ 102.1 LC
 DeRidder: KEAZ 101.7 PA: to 97.9 - A
 LaPlace: WCKW 92.3 adds Bob & Tom
 Many: KAVK 89.7 NW, AFA cont. Christian (&)
 New Orleans: WRNO 99.5 FC to classic rock

MAINE:

Auburn: WMWX 99.9 PC< 28.5 kW, 643 ft.
 Fairfield: WCTB 93.5 FC to all Christmas music, should return to soft AC format
 Freeport: WMSJ 89.3 PG> 7.5 kW (v)
 Portland: WBLM 102.9 dec. to 492 ft.
 10 XC: 43-45-33 / 70-19-15

Maine:

Presque Isle: WQHR 96.1 decr. To 1279', XG: 46-32-51 / 67-48-35
 Thomaston: WBQX 106.9 CC (ex WAVX) "W-Bach"
 Yarmouth: WYAR 88.3 NO-RE, LC

MARYLAND:

Cambridge: WICO 94.3 adds JRN country overnite

MASSACHUSETTS:

Bedford: *NS 88.1 AF

MICHIGAN:

Baraga: WBUM 104.3 NW, religion (VCY)
 Battle Creek: WKFR 103.3 dec. to 482'
 XC: 42-21-20 / 85-20-28
 Birmingham: WCSX 94.7 PC< 13.5 kW, 951 ft.
 Bunker: *** 106.3 GA: add class A
 Powers: *** 100.3 XA: add class A

MINNESOTA:

Alexandria: *NS 89.5 7.2 kW, 321 ft.
 Austin: *NS 90.1 AF (Minn. Public Radio)
 Bemidji: KBHP 101.1 XG: 47-22-12 / 94-52-54
 Hutchinson: KKKR 107.1 FC to Radio 1 hot AC (&)
 Moose Lake: KBFH 107.1 NO-GE (3rd)
 Park Rapids: KDKK 97.5 adds JRN standards (&) and Bruce Williams from 6 - 9 p.m.
 Princeton: KLCI 106.1 PA: to Elk River, MN (C2)
 Rochester: KMSE 88.7 LC
 St. Louis Park: WXPT 104.1 CC (ex KMJZ) "Point"

MISSISSIPPI:

Corinth: WXRZ 94.3 OSA to C3, 25 kW, 328 ft, XG: 34-48-36 / 88-34-45
 Kosciusko: WQJQ 105.1 CC (ex WBKJ) "Q105"
 McComb: WAQL 90.5 LC
 Tunica: WMPS 96.1 FC to 80's modern AC

MISSOURI:

Campbell: KFEB 107.5 LC
 Cuba: KGNN 90.3 PC< 6.3 kW, 325 ft.
 Festus: KTBK 89.3 PG< 500w, 272 ft, DA, XG: 38-13-56 / 90-23-51
 Florissant: KXOK 97.1 SG "97 FM The Rock"
 Jefferson City: KJLU 88.9 SG "Smooth Jazz 88.9"
 Joplin: KOBK 90.7 PC> 60 kW, 495', DA, C1
 Knob Noster: KCVQ 89.7 dismissed extension of time as unnecessary

LaMonte: KPOW 97.1 LC
 Lexington: KNRX 107.3 drops Mancow (KC)
 Linn: *** 103.1 GA: add class A
 Marble Hill: KBJJ 97.3 NO-GE
 Moberly: KBKQ 90.1 250w, 256', AFA CC (NS)
 Neosho: KBTN 99.7 PC> 16.5 kW, 403 ft, C3, XC: 36-54-33 / 94-27-40
 Shell Knob: KQMO 97.7 PG 2.1 kW, 558 ft.
 Tarkio: KRSS 93.5 CC (ex KTRX) "Cross FM"
 Warrensburg: KCMW 90.9 PC< 97 kW, 443 ft.
 Whitehall: *** 102.7 GA: add class A

MONTANA:

Big Sky: KBFN 104.5 NW, hot AC "Fun 104.5"
 Billings: KCMT 96.3 LC
 Cut Bank: *NS 102.7 NO-GX
 Ennis: KBJJ 98.7 CC (NS), PG 13 kW, 981 ft, C2, XG: 45-16-46 / 111-52-49
 Shelby: KLHK 97.9 CC (NS)

Montana:

W.Yellowstone: KEZQ 92.9 QC from 96.5 now 46 kW, 2733 ft, XC: 44-33-11 / 111-26-32, CC (ex KWVF), FC to soft AC "Easy", now class C

NEBRASKA:

Hubbard: KAYA 91.3 PC> 5.1 kW
 Wilber: KFLV 89.9 4.8 kW, 331 ft., CC (NS)

NEVADA:

Sun Valley: KXXL 93.7 NO-GE (2nd)

94.9
WHOM
 Soft Favorites

NEW HAMPSHIRE:

Concord: WVNH 91.1 NO-RE (3rd)
 Mt. Washington: WHOM 94.9 inc. to 3775 ft.
 Peterborough: WNHQ 92.1 PG< 170w, 1387 ft, XG: 42-51-41 / 71-52-45

NEW JERSEY:

Cape May: WWCJ 89.1 NO-RE
 Collingswood: W246AQ 97.1 NS-10w: WXHL-DE
 Manahawkin: WJRZ 100.1 FC to country "Jersey Shore Country"
 Millville: WBSS 97.3 goes NO
 Ocean City: WTKU 98.3 PC> 6 kW, DA
 Woodbine: *NS 89.9 300w, 92 ft.
 Zarepath: WAWZ 99.1 PG< 19.5 kW, 790 ft, DA, XG: 40-36-40 / 74-34-14

NEW MEXICO:

Albuquerque: KRQS 101.3 CC (ex KEZF) "K-Rock"
 Angel Fire: KKIT 99.1 FC to Radio 1 country (&)
 Cloudcroft: KTMN 97.9 CC (NS)
 Clovis: KAQF 91.1 PC> 1350w
 Eunice: KYRK 100.9 PC> 50 kW, C2
 Jal: KPZA 107.1 NW, LA Buena Mex. (&), QC from 103.7
 Raton: *NS 96.5 650w, 968 ft.
 Taos: KHYF 99.9 NO-GE (3rd)
 White Rock: KSFQ 101.1 OSA to C3, 6 kW, 1863 ft, XG: 35-53-09 / 106-23-16

NEW YORK:

Canandaigua: WISY 102.3 FC to soft AC (Roch.)
 Canton: WXQZ 101.5 FC to country // WNCQ
 Catskill: WCTW 98.5 XG: 42-12-03 / 74-06-48
 Fredonia: WCQA 96.5 FC to CD country "Bull" (&)
 Homell: WSQA 88.7 NO-RE
 Irondequoit: WYSY 106.7 FC to dance // WMAX
 Jewett: WAKX 97.9 PA: to A - Windham, NY
 Mechanicsville: WXLX 104.5 FC to hot AC "Magic"
 New York: WBIX 105.1 FC to rhythmic oldies
 Pt. Henry: WXNT 92.1 CC (ex WMNM)
 Pt. Jervis: WTSX 96.7 PG< 890w, 610 ft, XG: 41-22-23 / 74-43-49
 Saratoga Sps: WSSK 89.7 NW, c.Christian // WFGB
 Syracuse: WNTQ 93.1 XC: 42-56-48 / 76-01-28
 Syracuse: WRVD 90.3 NO-RX (3rd)
 Watertown: WCIZ 93.3 QC from 93.5, PC> 6 kW, XG: 43-57-23 / 75-50-45

NORTH CAROLINA:

Elizabeth City: WKJX 96.7 FC to ABC urban gold "Kiss 97"
 Jefferson: WASQ 106.1 NO-RE (5th)
 Spindale: WNCW 88.7 decreases to 3027 ft, DA, XC: 35-44-06 / 82-17-11
 Tabor City: WYNA 104.9 PC> 25 kW, 298 ft, DA, XC: 33-49-19 / 78-46-18, CL: Calabash, NC
 Wanchese: WOBR 95.3 FC to rock (Outer Banks)
 Wilmington: WBID 89.7 CC (NS)

NORTH DAKOTA:

Beulah: KAVG 97.9 NO-GE
 Dickinson: KRRB 92.1 PC> 10.5 kW, 492', C3
 Hettinger: *NS 93.5 NO-GE

OHIO:

Athens: WJKW 95.9 NW, cont. Christian (&)
 (The Word in Music net from 6pm to 6am)
 Cincinnati: WVMX 94.1 PC< 10 kW, 866 ft, XC: 39-06-59 / 84-30-07
 Cincinnati: WEBN 102.7 PC< 16 kW, 866 ft, XC: 39-06-59 / 84-30-07
 Delhi Hills: WYJC 90.1 NW, religion (Family Life Radio LMA through 1998)
 Delphos: WBIE 91.5 5.3 kW, 328', DA (AFA), CC (NS)
 Gallapoli: WRYV 101.5 CC (ex WMGG), FC to classic hits (Huntington, WV) "The River"
 Greenville: WLSN 106.5 FC to country "Garth 106.5"
 Harrison: WNLT 104.3 CX CP for 1.9 kW, 410 ft., PG> 5.2 kW, 328 ft, XG: 39-13-34 / 84-42-59
 Lebanon: WYLY 97.3 PC> 4.3 kW
 Lima: WAJC 104.9 CC (ex WUZZ) "Magic 104"
 Ottawa: WQTL 106.3 adds Bob & Tom
 Pleasant City: *NS 92.1 6 kW, 282 ft.
 Shelby: WAUI 88.1 NO-GE, LC

Magic 101 &
WMGG FM

OKLAHOMA:

Ardmore: KLCU 90.3 NW, info, classical // KCCU
 Byng: KYKC 100.1 OSA to C2, 50 kW, 492 ft, XG: 34-51-11 / 96-45-52
 Cordell: KCDL 99.3 PC> 10.5 kW, 505 ft, C3, XC: 35-26-49 / 98-59-16
 Enid: KOFM 103.1 OSA to C2, 50 kW, 492 ft, XG: 36-29-30 / 97-56-08
 Eufaula: KCES 102.3 NC to 102.5 - C3, 10.5 kW, 505 ft, XC: 35-06-09 / 95-36-53
 Idabel: KBEL 96.7 adds Real Country (&)
 Magnum: KHIM 97.7 NW, southern Gospel (&)
 Pawhuska: KBVL 103.9 CC (ex KTGP), FC to classic rock
 Snyder: KBKF 100.3 CC (NS)
 Woodward: KMPQ 95.9 NO-GX

OREGON:

Corvallis: KLOO 106.1 FC to classic hits
 Medford: KOPE 103.5 FC to oldies "Kool 103.5"
 Redmond: *NS 88.9 AF (State of Oregon)
 Springfield: KQFE 88.9 PC> 1,250 watts

PENNSYLVANIA:

Franklin: WAWN 89.5 NW, AFA Cont. Christian (&)
 Freeland: WWFH 103.1 FC to soft AC // WSHG
 Laporte: WRPA 103.9 NW, classic rock (&)
 Lewistown: WMRF 95.9 OSA for 95.7, ND
 Markleysburg: *NS 89.1 AF
 Philadelphia: WIOQ 102.1 FC to CHR
 Pittston: WSHG 102.3 will remain soft AC (has decided not to go to talk format) (Scranton) CC (ex WILK)
 Pt. Matilda: WIKN 107.9 PC< 450w, 1174 ft, DA, XC: 40-55-11 / 77-58-28

SOUTH CAROLINA:

Aiken: WKXC 99.5 PG< 24 kW, 712 ft, XG: 33-38-44 / 81-55-45
 Bowman: WSPX 94.5 PC> 6 kW
 Hampton: WBHC 92.1 QC from 103.1, PC> 6 kW, FC to country "B 92.1"
 Moncks Corner: WNST 105.3 FC to rhythmic oldies "Cool" (Charleston)
 Seneca: WPEK 98.1 replaces Imus in morning drive with Lex & Terry, dec. to 99.7 ft.
 W.Columbia: WSCQ 100.1 drops talk for just adult standards

SOUTH DAKOTA:

Dell Rapids: KSOB 95.7 NW, classic rock
 Lennox: *** 93.1 PA: add class C3
 Sioux Falls: KRRO 103.7 PC< 38 kW, 394 ft, XC: 43-27-28 / 96-40-14

TENNESSEE:

Lynchburg: *** 107.1 XA: add class A
 Memphis: WEGR 102.7 PG< 87 kW, 945 ft, XG: 35-16-33 / 89-46-38
 Middleton: WBDJ 100.7 CC (NS)
 Olive Hill: WDNX 89.1 PC< 40 kW (h), 249 ft, C2
 Petersburg: *** 107.1 XA: add class A
 Red Bank: WJTT 94.3 CX CP for 299 ft.
 Ripley: WAUV 89.7 NO-RE
 Signal Mtn: WLOV 98.1 FC to R&B Oldies "Love 98" CC (ex WXKT)
 Tullahoma: *** 107.1 XA: add class A

TEXAS:

Ballinger: KCSE 103.1 OSA to C1, 100 kW, 456 ft, XG: 31-39-37 / 100-05-23
 Beaumont: KTCX 102.5 FC to urban "Magic 102.5"
 Beaumont: KYKR 95.1 NC to 1070 ft, C1, XC, GE (3rd)
 Beeville: *NS 91.3 1 kW, (v), 302 ft.
 Borger: KASV 88.7 NW, religion // KJRT
 Caldwell: KLTR 95.1 NO-GE
 College Stn: KTSR 92.1 NC to 95.1 - C2, PC> 50 kW, 492 ft, GE
 Comanche: KOXZ 94.3 NO-GX

**Texas:**

Dallas: KBFB 97.9 picking up ac tempo a bit
 Falfurrias: KDFM 103.3 NW, Spanish c. Christian
 Flower Mound: KNKI 96.7 FC to soft oldies "Memories" (Dallas) "Memories 96.7"
 Franklin: KZTR 101.9 FC to hot AC (Bryan)
 Hillsboro: KBRQ 102.5 FC to rock (Waco)
 Jacksonville: KLJT 102.3 PC> 6 kW
 Linden: KIKK 99.3 NO-RE (2nd)
 Littlefield: KAIQ 95.5 NO-GE (5th)
 Luftkin: KAVX 91.9 LC
 Palestine: KLIS 96.7 NC to 50 kW, 384', DA, RE
 Pampa: KAXH 90.9 NW, AFA cont. Christian (&)
 Pittsburg: *NS 96.9 3.9 kW, 390 ft.
 Pittsburg: KXAL 103.1 OSA to C3, 25 kW, 302 ft, XG: 32-51-23 / 94-57-00
 Plainview: KHDY 106.9 PG> 50 kW, 469 ft, DA
 Pt. Comfort: KAJI 94.1 LC
 Round Rock: KFMK 105.9 FC to rhythmic oldies
 San Angelo: KMDX 105.7 NW, JRN hot AC "Mix 105"
 Sanger: KBJV 89.7 CC (NS)
 Sterling City: KCSE 96.5 FC to ABC (&), CC (ex KKCX), (ABC A/C carried 10a-1p, 6p-6a)
 Whitewright: *** 99.9 PA: add class A
 Winona: *NS 102.7 6 kW, 328 ft, DA

UTAH:

Levan: *NS 99.1 6 kW, 328 ft.
 Park City: KPCW 91.9 PG> 120w, 2122 ft, DA, XG: 40-36-34 / 111-28-49
 Tremonton: KNFL 104.9 CX CP for 10 kW, 1099 ft, XC: 41-35-34 / 112-13-55, PG> 100 kW, 1059 ft, Class C
 Vernal: K218CT 91.5 NS-92w: KUSU 91.5

VERMONT:

Stowe: WCVT 101.7 PG> 135w, 2066 ft, XG: 44-25-44 / 72-49-42

VIRGINIA:

Buena Vista: WREL 96.7 NC to 10 kW, 492 ft, B1, XC, GE (10th)
 Charlottesville: WUVA 92.7 XC: 37-59-08 / 78-78-47
 Colonial Bch: WGRQ 95.9 PC> 2.4 kW
 Danville: WOKD 91.1 NO-RE
 Petersburg: WVST 91.3 PC> 2.2 kW (v), 167', DA
 Spotsylvania: WYSK 99.3 FC to CHR "Y 99.3"
 Warrenton: WUPP 94.3 PG< 2 kW, 574 feet, XG: 38-44-31 / 77-50-07
 Winsdor: WSVY 107.7 NC to 1.7 kW, GE (3rd)

WASHINGTON:

Davenport: KKRS 97.3 NW, religion // KAWZ
 Grandview: KARY 100.9 FC to oldies "The Cherry"
 Hoquiam: KGHO 95.3 NC to 5 kW, 436 ft, C3, RE
 Ilwaco: KBKH 103.9 CC (NS)
 Port Townsend: K201ET 88.1 NS-2w: KAWZ-ID
 Seattle: KZOK 102.5 NC to 58 kW, 2342', RE (4th)
 Shelton: KRXV 94.5 NW, a/c (Olympia)
 Spokane: KNJY 103.9 increases to 1417 ft, C2, XG: 47-36-04 / 117-17-53

WEST VIRGINIA:

Arnoldsburg: *** 100.7 PA: add class A
 Gassaway: *** 98.5 PA: add class A
 Peterstown: *** 96.7 PA: add class A

WISCONSIN:

Berlin: WBJZ 102.3 CX CP for 104.7, 1.5 kW, 459 ft, XC, QG to 104.7, but at 3.4 kW, 351 ft, XG: 43-53-57 / 88-53-57
 Brillion: WEZR 107.5 NC to 5 kW, 751 ft, ND, C3, GX
 Milwaukee: WLUM 102.1 adds Mancow mornings
 River Falls: WEVR 106.3 PC> 6 kW, 328 ft, XG: 44-53-19 / 92-39-04
 Sister Bay: WHDI 89.7 CC (NS)
 Sister Bay: WHND 91.9 CC (NS)
 Sturgeon Bay: WRGX 89.5 LC
 Wausau: WCLQ 89.5 PC< 5 kW, 571 ft, XG: 45-55-11 / 89-40-45
 Wisconsin Rapids: WGLX 103.3 dec. to 325 feet, XG: 44-24-57 / 89-50-04

WYOMING:

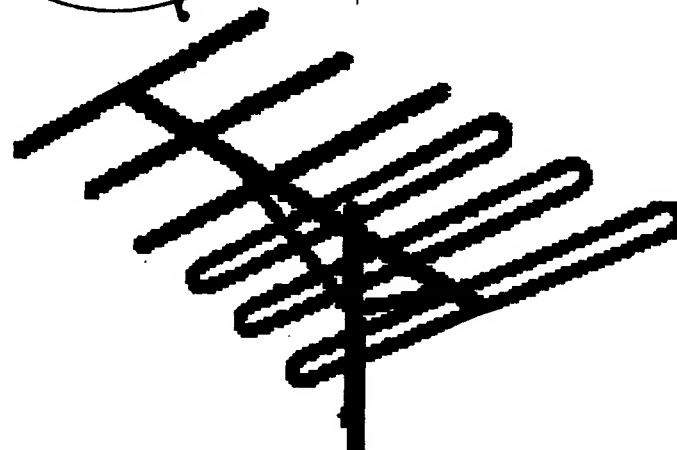
Ethete: KWRR 89.5 NO-RE (4th)

GUAM:

Dededo: KGUM 105.1 CC (NS)

PUERTO RICO:

San Juan: WIOA 99.9 PG< 31 kW, 1837 ft, XG: 18-16-44 / 65-51-12
 Cruz Bay: WWKS 101.3 adds Tom Joyner

**CANADA****ALBERTA:**

High Level: *NS 106.1 8765w, // CKKX-FM

ONTARIO:

Corwall: CFLG 104.5 PG> 30 kW
 Iroquois: *NS 107.7 50 w. (Seaway Campus)
 London: *NS 102.3 CRTC taking applications for new station here
 Penetanguishene: CBCM 89.7 QC from 107.5
 Peterborough: CBCP 93.5 QC to 98.7, 10170w
 Simcoe: *NS 98.9 1090w station wanted to rebroadcast CKPC 1380 Brantford
 Simcoe: CHCD 106.7 PG> 3,420 w (station already operating at this power)
 Welland: CHOW 1470 QG to 91.7, 25 kW

QUÉBEC:

Sacre-Cœur: CHME-1 99.7 NW, French AC // CHME-FM
 Ste-Marie-de-Beauce: CHEQ 101.3 CC (ex CJVL) FC to French AC, QC from 1360, now 4677w
 Tadoussac: CHME-2 99.7 NW, French AC // CHME-FM
 Trois-Pistoles: CIBM-2 PG> 183 watts

PIRATE WATCH:

• **PITTSBURGH, PA.** The FCC, with cooperation from the FBI, closed down Mark Lange's "Radio Carson", which operated on 91.7.

TV NEWS

January 1999

Douglas E. Smith W9WI
1385 Old Clarksville Pike
Pleasant View, TN 37146-8098
w9wi@bellsouth.net

#: Non-commercial station
nc: No Change
+/-: Channel offsets (plus,
z/n: minus, zero, and none)
^: Digital TV station

APPLICATIONS FOR NEW STATIONS

St	Ch	ERP	Ht.	City	Applicant	Latitude	Longitude
BC	8	0.01		Lone Prairie	CHAN [8]		
BC	7	0.001		Riske Creek	CITV [13]		
CA	32^	200	960	Anaheim	KDOC [56]	34-13-37	118-03-58
CA	30^	200	606	San Diego	KPBS [15]#	32-41-46	116-56-08
FL	47^	200	310	Hollywood	WAMI [69]	25-57-59	80-12-33
FL	48^	200	116	Live Oak	WFXU [57]	30-33-00	83-00-46
IA	50^	966	593	Des Moines	KDIN [11]#	41-49-47	93-36-56
MA	58^	50	294	Springfield	WGBY# [57]	42-14-29	72-38-56
MI	39^	795	416	Calumet	WBKP [5] (2)	46-26-21	88-03-01
MO	5-	75	282	St. Louis	KSDK [5] (1)	38-34-05	90-19-55
NY	28^	178	448	New York	WNBC [4]	40-42-43	74-00-49
OR	30^	741	528	Portland	KPTV [12]	45-31-19	122-44-53
SK	27	0.02		Quill Lake	Discovery		
TN	28^	906	313	Memphis	WREG [3]	35-10-52	89-49-56
UT	17^	188	825	Ogden	KUWB [30]	40-16-45	111-56-00
VA	16^	200	377	Hampton	WHRO# [15]	36-48-31	76-30-13

- (1) The KSDK application is for an auxiliary backup transmitter.
(2) WBKP-DT is 100km southeast of their analog transmitter on channel 5, and much closer to Marquette, the largest city in that part of Michigan. The location of the analog transmitter is limited by the presence of WLUC [6] in Marquette, but of course the presence of a channel 6 transmitter doesn't limit the placing of the DTV transmitter on channel 39.

CONSTRUCTION PERMITS GRANTED FOR NEW STATIONS

St	Ch	ERP	Ht./ Call	City	Applicant	Latitude	Longitude
AL	23-	1960	283	Tuscaloosa	S. Fader	33-03-15	87-32-57
BC	17	0.1		McBride	TSN sports		
CA	65^	1000	902	Los Angeles	KTTV [11]	34-13-29	118-03-48
CA	66^	371	888	Los Angeles	KCOP [13]	34-13-42	118-04-01
CO	16^	290	434	Denver	KUSA [9]	39-43-46	105-14-02
CO	17^	25	450	Denver	KMGH [7]	39-43-40	105-14-03
CO	19^	860	403	Denver	KTVB [20]	39-43-48	105-14-05
CO	32^	223	296	Denver	KDVR [31]	39-43-45	105-14-12
CO	35^	490	452	Denver	KCNC [4]	39-43-48	105-14-02

New-station permits expired, dismissed, etc.:

St	City	Ch	# permits	St	City	Ch	# permits
AL	Tuscaloosa	23	2				

APPLICATIONS TO CHANGE EXISTING FACILITIES

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
MA	2+	72.4	395	WGBH#	Boston		
MN	58n	7		K58BS	Minneapolis		
PA	52+	0.2		W52CE	Sayre	41-57-38	76-32-56
TN	30z	3020	340	WLMT	Memphis	35-16-33	89-46-38

APPLICATIONS TO CHANGE CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
AL	28-	16.3		W28BR	Birmingham	33-28-18	86-50-03
AR	14-	30.98		K14IV	Little Rock	34-49-52	92-19-18
CO	21z	1000	nc	KXRM-TV	Colo. Springs		

APPLICATIONS TO CHANGE CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
FL	48z	50		W48CI	Miami		
HI	44n	0.365		K44DQ	Kaneohe		
IA	23-	4966	613	KFWB-TV	Ames	41-49-47	93-36-56
IL	34z	0.5		W34CK	Arlington Hts	41-52-44	87-38-10
LA	11+	316	544	KAQY	Columbia	32-05-42	92-10-34
MS	43z	1702	238	WMAA#	Columbus	33-51-12	88-25-33
WA	49-	2920	nc	KPDX	Vancouver		

The new coordinates of W34CK are on the Sears Tower in Chicago.

LPTV DISPLACEMENT APPLICATIONS

St	City	Call	Fm	To	St	City	Call	Fm	To
AR	Paris	K60EP	60	53+	NY	Mineola	WLIG-LP	57	54-
CA	Litchfield	K11RL	11	57	OK	Nowata	K60EX	60	25+
CA	Modesto	KAZV-LP	14	33z	OK	Poteau	K50CO	50	59z
CA	National City	K61GH	61	58z	OR	Corvallis	K26AY	26	52+
FL	Ft. Walton Bch.	W69DH	69	18	OR	Glide	K68BG	68	24-
FL	Jacksonville	W67DL	67	45	OR	Medford	K68FW	68	28+
GA	Roswell	W22CD	22	32	TX	Dallas	K19DW	19	44z
GA	Vidalia	W46CA	46	19	VA	Chesapeake	W60BR	60	25-
MI	Dearborn	W68CH	68	33+	VA	Richmond	WXOS-LP	14	17z
NC	Asheville	W25BU	25	43	VA	Beach	W67CZ	67	30
NM	Gallup	K69BW	69	48	WA	Spokane	K13HE	13	11+
NM	Las Vegas	K65BQ	65	33+					

K60EP is listed in the Public Notice as being located at "Pharis", Arkansas, but at "Paris" in the FCC database. The name of the licensee is "Pharis Broadcasting Inc."! - I would assume that's where this typo came from...

CHANGES GRANTED TO EXISTING FACILITIES

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
DC	4-	nc	227	WRC-TV	Washington		
IN	23z	nc	294	WVNDY-TV	Marion		
PR	20z	78	288	WKPV	Ponce	18-04-49	66-44-53
TN	24z	3020	340	WPTY-TV	Memphis	35-16-33	89-46-38
VA	65+	2710	nc	WUPV	Ashland		
VT	39z	44		WBVT-LP	Barre (1)	44-07-29	72-28-49
WA	22z	1875	nc	KSKN	Spokane		
WI	12z	229	337	WISN-TV	Milwaukee	43-06-42	87-55-42

- (1) WBVT-LP also granted permission to move from Burlington, VT.

CHANGES GRANTED TO CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
AZ	34-	0.85		K34EE	Cottonwood		
FL	63z	5000	157	WPPB-TV#	Boca Raton	26-09-11	80-10-12
IA	44+	5000	596	KPTH	Sioux City	42-35-12	96-13-18
LA	11+	316	544	KAQY	Columbia	32-05-42	92-10-34
MA	48+	240	246	WYDN#	Worcester	42-18-14	71-53-51
OH	30z	2040	358	WHCP	Portsmouth		
PA	18-	0.17		W18CE	Hazleton	41-02-13	76-05-07
TX	43-	12.4		KHLM-LP	Houston		
UT	24z	nc	246	KAZG	Ogden		
WI	48z	nc	nc	WEUX	Chippewa Fls.	44-57-24	91-40-03
WV	28+	19.2		W28AS	Wheeling	40-03-41	80-45-08

The WEUX [48] change is a correction of the coordinates on the license; nothing has actually moved.

LPTV DISPLACEMENTS GRANTED

St	City	Call	Fm	To	St	City	Call	Fm	To
AR	Fort Smith	KFPD-LP	32	7z	IA	Iowa City	K39EX	64	39-
AR	Little Rock	KKYK-LP	22	23	IL	Springfield	W08DP	65	8-
AZ	Bullhead City	K61HA	20	61z	IN	Evansville	WVAZ-LP	52	17-
AZ	Williams	K43FT	25	43	IN	Evansville	WEOA-LP	67	50-
CA	Blythe	K31FE	67	31	KS	Overland Park	K27FR	68	27+
CA	Chester	K28FY	54	28	KY	Louisville	W50CI	49	50
CA	Daggett	K26FO	67	26	LA	Leesville	K51FO	52	51+
CA	Fresno	KJKZ-LP	28	27	LA	New Iberia	K54FT	55	54z
CA	Likely	K49EZ	68	49	LA	Opelousas	K50FI	66	50z
CA	Sacramento	K14JW	62	14z	MI	Kalamazoo	W26BX	24	26-

CA	29 Palms	K15FC	61	15	MN	Alexandria	K55ID	24	55z
CA	Yreka	K49EY	64	49	MN	Alexandria	K65HD	28	65+
CO	Akron	K35FI	16	35	MN	Fergus Falls	K49FA	69	49
CO	Akron	K41EV	18	41	MO	Branson	KNJD-LP	19	59+
CO	Akron	K43FS	20	43	MS	Jackson	W46CW	62	46
CO	Akron	K45FD	24	45	MS	Natchez	W59DK	58	59-
CO	Akron	K47FT	26	47	MS	Pascagoula	W51CU	46	51+
CO	Akron	K49EX	28	49	NC	Burnsville	W60CS	9	60+
CO	Akron	K55IB	30	55	NE	Culbertson	K44FN	12	44+
CO	Holyoke	K15FD	63	15	NE	Falls City	K46FG	24	46
CO	Holyoke	K17EU	65	17	NM	Alamogordo	KVBA-LP	63	19
CO	Holyoke	K19EG	67	19	NM	Albuquerque	KTEL-LP	15	53z
CO	Holyoke	K21FF	61	21	NM	Artesia	K46FE	40	46
CO	Idalia	K16EK	46	16	NV	Austin	K46FB	60	46
CO	Idalia	K18FO	48	18	NV	Walker Lake	K24EY	44	24
CO	Idalia	K24EZ	50	24	NY	Elmira	W21BW	42	21-
CO	Idalia	K26FP	52	26	OH	Columbus	WCLL-LP	64	19-
CO	Idalia	K28FX	54	28	OH	Findlay	WFND-LP	47	54z
CO	Peetz	K14JZ	15	14	OR	Burns	K52FX	69	52
CO	Peetz	K16EJ	17	16	PA	Chambersburg	W19CG	38	19
CO	Peetz	K18FN	19	18	SC	Florence	W66DE	54	66-
CO	Peetz	K32EX	60	32	SC	Honea Path	W65DS	45	65
CO	Wray	K44FM	56	44	SD	Orangeburg	W55CQ	52	55
CO	Wray	K46FF	58	46	SD	Belle Fourche	K20FT	19	20
CO	Wray	K48GA	60	48	SD	Brookings	K54FU	15	54
CO	Wray	K50FJ	62	50	TN	Nashville	W26BW	68	26-
CO	Wray	K52FZ	64	52	TX	Amarillo	KCPN-LP	65	33z
CT	Stamford	W27CD	38	27	TX	Amarillo	K50FK	67	50z
FL	Daytona Beach	W57CV	42	57+	TX	Longview	K58FS	22	58+
FL	Ft. Walton Bch	W26BV	66	26-	TX	Lubbock	K48GB	64	48z
FL	Jacksonville	WWRJ-LP	38	27-	TX	Lufkin	KFXL-LP	30	58-
FL	Panama City	W14CN	64	14+	TX	Matador	K40FK	62	40z
FL	Panama City	W17CG	16	17	TX	Matador	K42ES	66	42z
FL	Vero Beach	W66DD	50	66	TX	Matador	K45FE	64	45-
GA	Morrow	W55CR	19	55	VA	Fairfax	W44BT	42	44+
IA	Ames	K48FZ	52	48	VA	Hampton	W47CE	62	47z
IA	Davenport	K16EL	66	16z	VA	Lynchburg	W40BM	32	40
IA	Des Moines	K29EA	35	29+					

LPTV DISPLACEMENTS DISMISSED/DENIED

St	City	Call	Fm	To	St	City	Call	Fm	To
CA	Lakeport	K68AL	68	18-	NM	Tucumcari	K63BR	63	29
GA	Hinesville	W39BV	39	50+	OK	Tahlequah	K45ER	45	20-
IN	Indianapolis	W53AV	53	61	TX	Laredo	K61GY	61	25+
KY	Louisville	W08CT	8	60+	TX	Round Rock	KHPZ-LP	64	31z
NC	Roanoke Rapids	WVNV-LP	20	60	TX	San Antonio	K68EI	68	14+
NE	Neligh	K28AP	28	35z	WI	Milwaukee	WMBE-LP	8	38+
NE	O'Neill	K34CU	34	33z					

Changes expired, dismissed, etc.:

St	City	Ch	Call	St	City	Ch	Call
AL	Decatur	56	WYAM-LP	NY	Rochester	21	WXXI-TV#
FL	Key West	22	WEYS				

TECHNICAL CHANGES ON THE AIR

St	Ch	Call	City	What happened
AK	13n	K13XD	Fairbanks	power increase 550>740 watts.
CA	18-	KSCI	Long Beach	move from San Bernardino. (no change in tower location)
CO	21z	KXRM-TV	Colorado Springs	increase power 1050>1700KW and tower height 634>656m, move a few dozen meters.
FL	12z	WPEC	Palm Beach	increase tower height 10m, correct coordinates.
IA	45z	KDAO-LP	Marshalltn.	move from ch. 39, decrease power 3.9>2.97KW. Offset should be minus, but Jeff Kadet says they're on zero.
IL	22+	WMEC#	Macomb	move about 6km southwest and decrease tower height 9m.
IL	16+	WTJR	Quincy	increase power 603>1020KW and tower height 302>308m.
KY	15z	WKPC-TV#	Louisville	correct coordinates & increase tower height 2m.
NV	58n 61n	K58FM K61GL	Round Mountain	decrease power 485>389 watts & move about 5km south.

TECHNICAL CHANGES ON THE AIR

St	Ch	Call	City	What happened
NY	51z	W51BA	Syracuse	increase power 13.1>21.8KW and 1.3km west.
NY	26-	WNGN-LP	Troy	move from zero offset; decrease power 10>9.66KW; move 20km west.
OR	20z	K20BI	Nesika Beach	decrease power 15.6>1.56KW.
TX	58+	K48FU	Cisco	move from ch. 48, decrease power 16.7>7.37KW, move about 22km west-southwest.
VA	45-	W45BG	Va. Beach	increase power 6.9>39.1KW.
WA	54n	K54DU	Richland	power decrease 1.81>0.7KW.

NEW STATIONS ON THE AIR OR REQUESTING OPERATING LICENSE

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
CA	4-	0.28		K04OB	Bakersfield	35-26-16	118-44-28
CA	53^	182	924	KABC-DT	Los Angeles	34-13-37	118-03-58
CA	60^	469	1087	KCBS-DT	Los Angeles	34-13-55	118-04-18
CA	15n	18		K15CY	Sacramento	38-42-26	121-28-33
CA	49+	32.9		K49DD	Sacramento	38-40-22	121-19-52
CO	32-	22.2		K32EO	Colo. Springs	38-44-40	104-51-42
DC	34^	646	254	WUSA-DT	Washington	38-57-01	77-04-47
DC	39^	646	254	WJLA-DT	Washington	38-57-01	77-04-47
GA	10^	16.5	303	WXIA-DT	Atlanta	33-45-24	84-19-55
GA	19^	49	329	WGNX-DT	Atlanta	33-48-27	84-20-26
GA	39^	490	304	WSB-DT	Atlanta	33-45-51	84-21-42
HI	44n	6.78		K44DQ	Kaneohe	21-25-31	157-45-37
MI	5-	100	295	WBKP	Calumet	47-02-12	88-41-42
MI	58^	1000	274	WJBK-DT	Detroit	42-27-38	83-12-50
MS	49-	20.5		W49BX	Jackson	32-16-53	90-17-41
MS	53-	20.5		W53BO	Jackson	32-16-53	90-17-41
MT	18z	1780	585	KWYB	Butte	46-00-24	112-26-30
NJ	7-	0.029		W07CE	Atlantic City	39-23-24	74-30-45
NM	25n	1.23		K25FI	Mora	35-57-39	105-21-13
NV	25-	13.4		K25FX	Reno	39-35-02	119-47-51
NY	56^	349	397	WCBS-DT	New York	40-44-54	73-59-10
NY	56+	5000	379	WSPX-TV	Syracuse	43-18-18	76-03-00
OH	40-	4170	174	WLMB	Toledo	41-44-41	84-01-06
PA	26n	0.71		W26AV	Charleroi	40-07-24	79-53-46
PA	42^	305	161	WTFX-DT	Philadelphia	40-03-33	75-14-21
PA	64^	1000	332	WPVI-DT	Philadelphia	40-02-33	75-14-33
PA	64^	500	390	WPVI-DT	Philadelphia	40-02-33	75-14-33
SC	67+	21.2		W67DP	Columbia	33-52-27	81-11-05
TX	9^	18.6	527	WFAA-DT	Dallas	32-35-06	96-58-41
TX	35^	857	510	KDFW-DT	Dallas	32-35-06	96-58-41
TX	31^	759	551	KHOU-DT	Houston	29-33-40	95-30-04
TX	16+	209	83	KPTB	Lubbock	33-33-12	101-49-13
TX	59+	1		K59FQ	Victoria	28-46-37	96-57-45
WA	48^	960	239	KING-DT	Seattle	47-37-55	122-20-59
WI	34z	2570	127	WYOW	Eagle River	45-46-30	89-14-55
WI	26^	171	455	WKOW-DT	Madison	43-03-21	89-32-06

The WUSA-DT and WJLA-DT facilities are not typos - both have the same facilities. WPVI-DT had filed an application to amend its DTV CP. I have no record of this CP being granted, but it may have been, so I don't know which facilities this station is actually using.

STATIONS DELETED/DISMISSED/OFF AIR/ETC.

St	Call	St	Call	St	Call	St	Call
FL	W32BO	MI	W15BM	MO	K23EL	MT	K34ER
ID	K49EL	MI	W16BQ	MO	K29DM	MT	K34ES
LA	K43FC	MI	W17CC	MO	K68FJ	MT	K47FF
		MI	W45BN	MS	W17BX	MT	K58FF
		MI	W56DF	MS	W50CB	ND	K27FM
		MI	W58CN	MS	W68DC	OK	K31EU
						WY	K28FE

CA	29 Palms
CA	Yreka
CO	Akron
CO	Akron
CO	Akron
CO	Akron
CO	Akron
CO	Akron

are deleted this month:

W22BV	W26BM	W45BL	W47BX	
W69DO				
W61CO	W65CZ	W69DF		
W22BU	W42BZ	W50BX	W58CM	W66CL
W36BT	W41BV	W46CK	W49BQ	W52CC

New	Was:	Ch	Now:	City:	Ch
		29	New	CITS-TV	Hamilton, ON
		54	K04OG	KENY-LP	Reedville, OR
		51	K07UD	KTOV-LP	C. Christi, TX
K53EO	KTOW-LP	Wichita, KS	53	K50AO	KCCX-LP
KLGT-TV	KMNB	Mpls., MN	23	New	KBKI
WAQF	WPKJ-TV	Batavia, NY	51	New	WBIJ

PROGRAMMING CHANGES

Call:	Location:	Programming:
K63BN	Bayfield, CO	sold to KASA [2], Fox.
W48BC	Destin, FL	WAWD [58], travelers' information. (may soon change or go dark)
WAWD [58]	Ft. Walton Beach, FL	"Beach TV" travelers' information.
KEVE [5]	Honolulu, HI	from UPN to WB.
K44DQ	Kaneohe, HI	new, KEVE [5], WB.
KTYJ-LP [58]	Coeur d'Alene, ID	sold to religious organization.
W36CG	Evansville, IN	3ABN.
KAQY [11]	Columbia, LA	new, to be ABC for Monroe per "www.abc-11.com" and Danny Oglethorpe.
WSPX-TV [56]	Syracuse, NY	new, Pax.
K48FU	Cisco, TX	from KNVA [54] to PTCB religion.
KSKN [22]	Spokane, WA	from UPN to WB.

OTHER STUFF & FORUM

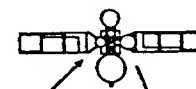
Thanks to Jim Ayers, Will Hepburn, Danny Oglethorpe, Jeff Kadet, Jeff Kruszka, Fernando Garcia, Fred Nordquist, Chip Kelley, and for information appearing elsewhere in this month's column. Will came up with the calls for the widely-seen new channel 36 station in Ontario - they still haven't appeared in the database on the CRTC Web Site..

Note the large number of new DTV stations on the air. Quite a few came on that aren't listed here because they haven't applied for an operating license yet. Expect to see these appear here over the next couple of months. (and on your TV now if you live near one!) More of the displaced LPTV stations are appearing on their new channels too. Jeff Kadet saw KDAO-LP on channel 45 (ex-ch. 39) for his 1,700th logging (congrats!), and Fernando Garcia saw K48FU on channel 58. Even if you accept the doomsday scenario and assume DX will be impossible with DTV, you're going to have a few very productive years logging moving LPTVs! New NTSC stations are still appearing too (note KAQY [11]), so there's plenty of life left in this hobby.

I guess I should mention it more often, but there are still copies of the "TV Database" available. It's 1995 data but still quite useful. I'm trying to get them out of my den - \$5 will get you a copy to a US address, \$6 to Canada. (covers the extra postage) Write the address at the top of the column. I also have more current data (and no ads!) on my Web site at personal.bna.bellsouth.net/~w9wi. Note that there's no "www" in that address, and don't forget the tilde (~) before the "w9wi". The Database Online is updated every couple of months. If you have Web access, I'd also appreciate it if you take a look at the "Programming Needed" page & see if you know anything about any of the stations listed. The FCC doesn't track programming, so DXer reports are my only way of knowing who's carrying what.

73 Doug
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SATELLITE NEWS



GEORGE W JENSEN
4604 ANNTANA AVE
BALTIMORE MD 21206-4220

Another rundown of changes, deletions and new services on the birds above us.

Satcom C5 - Aurora

there is no longer any regularly scheduled video on this bird - all video is now compressed digital.

Satcom C1-

11 - generally now a dedicated NHK feed from NY to Tokyo Galaxy 1

6 - delete Z - the Christian Music Channel and replace with Nashville Network - west Coast feed VC2 Morelos 2/Solidaridad 2 - nothing noted anywhere here as of 12-9-98

Anik E2 - Ku-band

new digital music channels as follows:

941 - Rock - Beatles, Stones, etc.	952 - French Pop
942 - rock	953 - French
943 - pop	954 - french
944 - pop	955 - Ballads, Standards
945 - strange	956 - Jazz
946 - dance?	957 - Jazz
947 - rock?	958 - Blues
948 - country	959 - Ethnic
949 - country	960 - Strange, eclectic, weird
950 - Canadian - French	961 - Instrumental
951 - country	962 - Jazz??
963 - Strange, Eclectic, Weird	964 - Classical
965 - Classical	966 - Classical
968 - Opera	969 - Kids - English
	970 - Kids - French

Spacenet 4

16 - Pax Net - now VC2

Telstar 5

7 - International Shopping Alliance

on Ku-side - delete the digital channels 100, 200 and 300

Galaxy 3 - Ku-Band

13 - delete CCTV 4 - China - moved to XPDR 24

Galaxy 7 - C-Band

10 - delete Emirates Dubai TV - new location unknown -

still on Intelsat K1 - 12

754 - Filipino Channel

755 - Zee TV - an Asian service

801 - The Box Edge

Ku-Band

200 - Lifetime Movie Network

GE Americom K5 - Ku-Band - NOW ON AIR - ID Channel on XPDR 13V

Intelsat 8

750 - now ID'd as Canal Uno - Bogota, Colombia

That's all for this first column of 1999 - see you in 30

George

Jeff Kruszka, Editor
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January 1999

Happy New Year! It's time to show off some of my DX from last May. I wish I would have taped more!

Equipment: 1992 Zenith "Sentry 2" 13" color TV, Channel Master 4228A screened 8-bay w/RDX Labs UA-900 preamp for UHF, Channel Master 1114 Crossfire w/RDX Labs UA-702 preamp for VHF, both @20 ft. AGL. DX videotaped w/Sony Handycam model CCD-TR91.



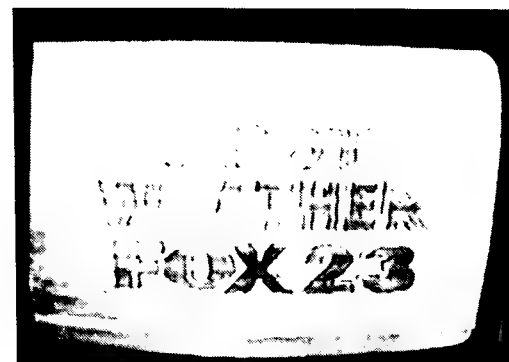
WGCN-30 Fort Myers, FL
620 mi Tr seen 5/9/98
@0301 ET
"Gulf Coast University"

KIII-3 Corpus Christi, TX
420 mi Tr seen 5/2/98
@0115 CT
"semi-local KATC-3 off"

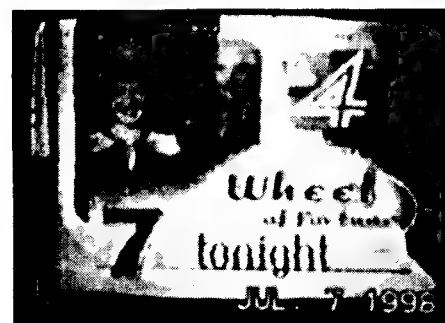


KHBS-40 Ft. Smith, AR
400 mi Tr seen 5/20/98
@2121 CT

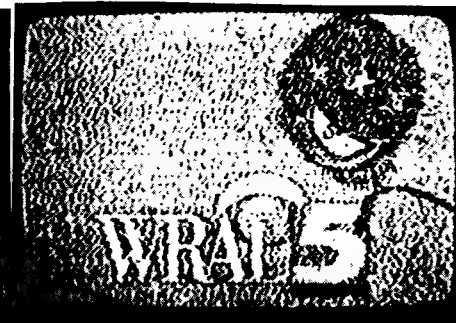
XHTPZ-24 Tampico, TA
715 mi Tr seen 5/20/98
@1940 CT



KOKI-23 Tulsa, OK
480 mi Tr seen 5/20/98
@2039 CT
"First Weather"



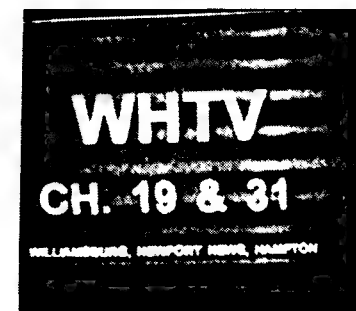
WDIV-4, Detroit, MI
935 mi Es seen 7/7/98
@1724 EDT



WRAL-5 Raleigh, NC
810 mi Es seen 12/28/97
@ 1659 ET

Now here's another one from Roy Barstow, Teaticket, MA:

W31BG Yorktown, VA
440 mi Tr seen 8/7/98
@2100 ET
"WHTV fake calls"



Next month: Mexico to Iowa tropo!

73's, Jeff



IN OLD NEW YORK

(Several months ago this column published DX reception reports received by very early tv operations. Now, a few more items regarding startup and growing pains...mainly in New York City. Condensed from newspaper items in Jeff Miller's collection <<http://members.aol.com/jeff560/jeff.html>>. If you're interested in broadcast history this is an excellent web site.)

First Night Difficulties Beset WOR-TV's Premier

(This article appeared in the New York Times, date uncertain.)

By SIDNEY LOHMAN

The gremlins of wartime fame apparently returned last Tuesday evening to play their tricks and raise havoc with WOR-TV's formal debut.

After functioning perfectly through weeks of experimental transmissions and rehearsals for the big day, the line carrying the sound portion of the opening night program "cut out" at 6:55 P. M., the exact moment when the station was scheduled to go on the air.

For the next few minutes the video audience could see John Gambling speaking but there was no sound. By one of those inexplicable coincidences, the sound channel was reactivated for exactly the one minute during which a bread commercial message was scheduled.

The station's switchboard was flooded with calls and 367 of them "got through" during the trouble period.

First night jitters also resulted in clearly audible applause during the "Handy Man" program which originates in a small, side studio - and which does not have an audience.

The station explains that the handclapping came from the main auditorium where Barry Gray was warming up an audience for his interview program to follow. Until its new studio space at 20 West Sixty-seventh Street is ready for use, all WOR-TV programs are originating from the New Amsterdam Roof Theatre, which has been leased and altered and refurbished for television.

Du Mont Gets FCC Nod For New Channel

(New York Times on Jan. 7, 1942.)

Washington, Jan. 6 (AP) -- The Federal Communications Commission granted permission today to Allen B. Du Mont Laboratories, Inc., of New York to build a new television station, which will operate on 78,000 - 84,000 kilocycles.

A representative of the Du Mont concern explained that the television station had been transferred to the commercial class and might broadcast commercial television programs when the equipment was ready. It was explained that several months might elapse, however, before this was possible.

The Du Mont station is on Channel No. 3 in the New York City area. Test programs are on the air at least one or two evenings a week. Good reception has been reported as far distant as Bridgeport.

DuMont's New Station Ready for Airwaves

(New York Times on Oct. 17, 1943.)

By T. R. KENNEDY JR.

Good news for television fanciers was forthcoming here during the past week. The Du Mont televue outfit in the high building at Fifty-third Street and Madison Avenue, revamped and refurbished during the past summer, is ready to go on the air regularly with three programs

weekly. A new "doughnut" video antenna has been installed atop the 130-foot steel mast that sprouts upwards from the building's top. The result is that Du Mont's signals are seen and heard with "exceptional" clarity within a 50 mile radius about the transmitter.

Reports of "good" reception are being received from points as distant as Philadelphia, Camden and Merchantsville, N. J. (suburb of Camden) and Wurtsboro, N.Y. (eighty miles northwest of Manhattan). The engineers are enthusiastic; such results were hardly to be expected considering the moderate height of the aerial - 635 feet - and that the optical horizon projected from the top of it is only about thirty miles from the station.

Antennas and antenna height have a lot to do with the distribution of televue signals. A previous system employed had been unsatisfactory over parts of Brooklyn, northeastern Manhattan and northern New Jersey. The new "doughnut", however, is said to indicate an even video/sound coverage outward to the fifty-mile radius, with somewhat spotty results beyond.

Tests are being carried on to determine maximum distances.

Du Mont programs, beginning tonight, will be on the air regularly Sundays, Tuesdays, and Wednesday from 8:30 to 10 P.M. on channel 4. There will be test patterns to aid in tuning programs, followed by various studio variety presentations and films. Samuel H. Cuff, news commentator, will be in charge.

For the time being W2XWV will get along with its present small studio, but a larger one is being planned "somewhere in Manhattan." It is to include the best in convenience, lighting, and general operational facilities.

Operating a modern television station is a big problem anytime, but a far greater one under wartime materials and manpower shortages, according to engineer W. J. Swenson.

Consider that to go on the air W2XWV uses 1,028 vacuum tubes of all types, 28 of them cathode ray tubes for monitoring the video signal. They are mounted in twenty or more six foot steel cases that bristle with glowing lights, meters, and knobs. Not a single piece of the equipment (all of it made in Allen B. Du Mont's Passaic, New Jersey factory) is

allowed to operate at less than 100 percent efficiency lest image or sound suffer in quality, or the extent of coverage shrink.

When films are used additional equipment must be turned on and brought into electrical synchronization.

Although the station normally radiates only about 2,000 watts of aerial power, 50 to 60 kilowatts (50,000 to 60,000 watts) of electrical power are continuously consumed from city power mains.

NBC Plans

(no source or publication date)

The rodeo, sports events, and other spectacles staged in Madison Square Garden will be televised - come October 25 - by station WNBT of the National Broadcasting Company on channel 1. The shows also will be relayed on a non-commercial basis to station WPTZ, Philadelphia and WRGB, Schenectady. Hockey, track meets, basketball - possibly boxing bouts and wrestling matches too - will be programmed.

Meanwhile, regular WNBT programs will continue on the air Mondays on No. 1 channel. From 4 to 5 o'clock there will be air raid warden lectures, a repeat showing from 7:30 to 8:30, and films and variety until 10:30 P.M.

News from CBS

(no source or publication date)

Television programs of the Columbia Broadcasting System go on the air Thursdays over WCBW on channel 2. Test patterns from 7:30 to 8 o'clock are followed by films until 10 P.M. This schedule will be continued indefinitely, according to director Worthington Miner, as long as the available materials and manpower hold out. Technical manpower shortages, he said, are the most pressing need and will determine WCBW's future.

For those who have home television receivers not in operating condition, the service outlook is "something less than bright." Skilled men are not available to "fix" ailing sets; neither are replacement materials. It is therefore estimated that the 1,000 to 2,000 receivers now inoperative in this area are likely to remain so indefinitely. This is the only "bad" news current in television circles.

EASTERN TV DX

January, 1998

Russell Miller
HC 61, Box 86B
N. Amity, ME 04471-9622
email address - estvdx@ainop.com

LOCAL TIME UNLESS OTHERWISE NOTED

Roy Barstow, P.O.Box 2488, Teaticket, MA 02536

October, 1998

11 Tr Mt. Clinton, NH 3,000 AG
1300 CBFT 2 PQ
CBMT 6 PQ
CHLT 7 PQ
CKSH 9 PQ
CFTM 10 PQ
CFCF 12 PQ
1330 CIVM 17 PQ
WNPI 18 NY
WNHT 21 NH
CIVS 24 PQ
WMEA 26 ME
W27BL 27 NH
W28— 28 VT (WVNY-22 ABC)
W14CK 14 VT

12 Tr N. Woodstock, NH (Parking Lot)
0900 2, 4, 7, 25 Boston
24 Tr 2200 W18BS 18 VA 450
W24BI 24 VA 460
2345 WRAY 30 NC 565
25 Tr 0030 WYDO 14 NC 562
WUNP 36 NC 533
WVBN-LP 19 VA 460
0100 W35BH 35 VA 400
W36BK 36 VA 400
W45BG 45 VA 456
0130 WNCN 17 NC 592
0200 WUNJ 39 NC 660
WSFX 26 NC 660
0215 W18BB 18 NC 490
0220 WRAZ 50 NC 600
26 Tr 1900 W15BK 15 NH 160
2000 W14CK 14 VT UPN 250
2100 WEKW 52 NH 134
W14AZ 14 NY 170

November, 1998

11 Tr 2000 WYDO 14 NC 562
WUNM 19 NC 577
WUNJ 39 NC 660
15, 27, 43 E. VA
17 Ms 0100 CKLT 3t NB 365
Talk Show - CTV L/R
0412 Montreal SRC/CBC
Slide 14 sec. ant. n.
20 Ms 0315 CBAFT 3 NB 473
4 Times 3/4 CB
to CHAU 3 PQ 494
4 Times Card & Music
0430 Ant. North
22 Tr 2100 WUNM 19 NC 577

22 Tr WUNJ 39 NC 660
2315 WNCN 17 NC 592
2330 WYDO 14 NC 562
WUNP 36 NC 533
23 Tr 0010 WRAY 30 NC 565
0015 WSFX 26 NC 660
0030 WUNU 31 NC 640
0045 WFXI 8 NC 550
0100 WVEC 13 VA 455
2000 CBHT 11 NS 279
CKLT 9 NB 345
2100 CBHT 3 NS 279
2230 CHIF 8 NS 408

For the trip up north to NH, I used the ICOM R-10 with RS Model 15-1607 portable amp. The R-10, a hand-held unit, is very nice. Using the same antenna, on the ICOM-R100, a little less gain, but a good back-up if the R-100 goes dead. At this location on Cape Cod, NC picked up 12 different dates in August, in Sept., 10 times and for Oct. 4 times. On Cape Cod, there is never a season without DX. There may be a season here and there where NS may not make its appearance, but DX down the coast during June, July, Aug. is almost a sure guarantee. On Nov. 11 after a straight line front moved through, ducting to NC, gone in 1/2 hr.

Jim Ayers, 2497 Wind Forest Court, Norcross, GA 30071 jimayers@raider.net

September, 1998

11 Tr 2329 WCLF 22 FL 405
Many Tampa/Oriando/Naples/ Fort
Pierce relogs

October, 1998

20 Tr 0801 WUNF 33 NC 133

November, 1998

17 Gw WXIA-DT 10 Atlanta
New station on air
25 WGNX-DT 19 Atlanta
New station on air

This fall is really weak for DX. Lucky to break 100 miles here. WUNF had been the closest full-power station I still needed. The radiostation.com site listed in the October VUD is a great site for TV info now. It lets you enter your coordinates and it will list all the (full-power only) stations within any radius. I'd been wanting to see a list like this for years! With WUNF logged now, the closest (full-powered) ones I still need are the five in Knoxville at only 145 miles! Mountains! The farthest distance to the nearest full-powered on any channel here is 334 miles to channel 51 in Ocala. It was 1500 miles to the nearest station on some channels when I started Dxing. 73's Jim

Douglas E. Smith, W9WI, 1385 Old Clarksville Pike, Pleasant View, IN 37146-8098

Not much, but it's something. The Leonids were a bit of a disappointment here — plenty of bursts but none strong enough to override the locals on 2/4/5 or even 200-mile WREG-3.

November, 1998

15 Tr 2214 KSLA 12 LA Shreveport 466
KTVE 10 AR El Dorado 371
"Region 10 News"
2251 KTREt 9 TX Lufkin "9 News"
2308 WXVT 15 MS Greenville, 278
MS State U football
16 Tr 0500 KTHV 11 AR Little Rock 323
distinctive ID
0504 KVTH 26 AR Hot Springs 363
local ad
0829 WSTR 64 OH Cincinnati 238
Florence KY ad
0834 WSBT 22 IN South Bend 363
calls, NOTE #1
0920 KTVE 10 AR El Dorado 371
still in
unID 60 w/"Matlock", who?
KYPX 42 AR Little Rock 323
// local WNPX 28
WIPX 63 IN Bloomington 214
// KYPX & WNPX, ex-WIIB
0930 WXIN 59 IN Indianapolis 246
0959 KETK 56 TX Jacksonville 556
Longview ad
1000 KASN 38 AR Pine Bluff 319
"UPN 38"

December, 1998

01 Tr 0711 WKRC 12 OH Cincinnati 234
local news
WLFI 18 IN Lafayette 277
WTJct 26 OH Springfield
Pax // local WNPX 28
TBNs 42/43/46/57 Indiana/ Ohio/
Alabama/ East Tennessee
WPBY 33 WV Huntington 304
"WVPTV" ID
WRGT 45 OH Dayton 276
promos
WIPX 63 IN Bloomington ~200
// local WNPX 28
0732 WTJP 60 AL Gadsden ~200
TBN
0741 {WPXS} 13 IL Mt. Vernon 179
// local WNPX 28-Prev logged as WCEE
0746 WYMT 57 KY Hazard 222
0800 WKSO 29 KY Somerset 135
NOTE #2
0850 WFTET 58 IN Salem
someone under local WNAB
0855 WXIN 59 IN Indianapolis 246
WSTR 64 OH Cincinnati 238
0900 WIPX-LP 51 IN Indianapolis 238

01 Tr Pax, NOTE #3
1000 WTVF 47 IL Peoria 322
aural ID. Another PBS-47 in there too,
presumably WBSN-VA

NOTE #1: Running "Guiding Light". A soap opera at 8am sure catches one's attention!
NOTE #2: This station is 100% parallel to WKD-29 Paducah, which was well atop the channel this morning. But this morning, there was a slowly-moving "ghost" against WKPD, which peaked up on a Somerset heading
NOTE #3: W51BU Morse ID. The station is now WIPX-LP but previous calls were W51BU. Presumably they haven't reprogrammed the Ider yet...Heterodying with some other channel 51 station, probably WSFJ-OH

Russell Miller, HC61 Box 86B, N. Amity, ME 04471

November, 1998

16 Ms 1156 WEWS 5 OH 753
1209 WJBK 2 MI 792
1231 WSJK 2 TN new for Ms 1027
17 Ms 0715 CKPR 2 ON new for Ms 1019
0746 KGAN 2 IA 1214
KGAN is rare for Ms, common for Es
due to hill to my west
25 Ms 0754 WFMY 2 NC
Strong burst like Es

Comments: Leonids was a disappointment. Maybe next year?

I'm trying to familiarize myself with F2 in case the MUF gets high enough for television. I'm not very well equipped with only a US TV and VCR and the R-100 with no sideband. I purchased a Radio Shack DX-398 Shortwave radio to monitor 10 meters with USB and 40Hz tuning increments. I'm using a 1/2 wave dipole mounted vertical on my roof. It's 16' 3" long made from speaker wire. I'm amazed how strong the 10 meter signals can be. European stations peg the meter every morning from 7-11:30am. S America is spotty but can blast in anytime of day. Farthest heard are Sochi, Russia; South Africa; Zimbabwe; Argentina; Australia; New Zealand; Japan; Alaska. The last four often squeaking in a little after dark as western US stations are fading out. I ordered a call disc as I have a load of unIDed countries prefixes to ID. I'm sure past F2 TV Dxsers will score again as signals are so strong.

Now for another subject. When I began meteor scatter Dxing a few years ago, stations in the 300-500 mile range were very rare to receive. Needing considerable antenna offset for specularly. Beginning last spring, I began picking up stations of this distance with regularity, becoming common while pointing at them. Roy Barstow notes similar results. He picks up stations of this distance to his north by pointing at them, but doesn't see them when offset somewhat. I find this interesting.

Many Dxsers have experienced UHF lightening scatter with stations up to 500 miles coming in, acting similar to meteor scatter. I've seen stations on UHF "too far" to be lightening scatter and assumed them to be UHF meteor scatter (which does exist). But what about these newly discovered lightening sprites extending to the E-layer? They should make for some long-haul lightening scatter I would think(?)

WESTERN TV-DX

January 1999

Dennis Park Smith, 3703 Dixon Street, Santa Barbara, CA 93105-2419 (805)687-7803

This report is for November 1998. TV-FM tropo between Santa Barbara and San Diego/Tijuana (up to 200 mi/320 km) continued occasionally though somewhat less pronounced because of overall cooler temperatures. Monitoring continues to be indoor TV and car radio FM.

Nov 1-4: Variably poor/fair --Stable air layering: mild temps statewide.
Nov 5-6: None -- Wind and some rain; layering
Nov 6-8: [Out of town] dispersed; colder temps
Nov 12 eve Suddenly up to poor, UHF fair--Again
Nov 13-16 Variably poor/fair stable but rem. cool
Nov 17-20 am: None --Unstable; weather front, windy
Nov 18 eve only: UHF poor while VHF none
Nov 20 eve Suddenly up to fair --stable again; cool
Nov 21: Still fair
Nov 22-23am: Down to poor
Nov 23 eve-25am: None --weather front
Nov 25 eve: Suddenly up to poor/fair --Stable again, cool
Nov 26-27: Variably poor/fair
Nov 28-30am: None --Nov 28 rain
Nov 30 eve: Briefly up to poor --After that, rain

A new Channel 19 LPTV was noted Nov. 6 at Santa Barbara with Spanish music videos, possibly Mas Musica TeVe. Poor/very poor but steady since then. Tentatively guessing that it is from Ventura at 25+ miles.

Danny Oglethorpe, P.O. Box 6688, Shreveport, LA 71136-6688

November 1998 UTC
06 Es 1400 unIDs 2 Mexico; XEW and other 1435 unID 5 Mexico; XEW
07 Es 0150 unIDs 2 Mexico; XEW and other 0240 XHFM 2 VER Telever 950
09 Es 0045 unIDs 2, 3, 4, 5, 6 Mexico 0110 XHATU 5 JAL 1000
0140 XHG 4 JAL 1003
16 tr 0405 KVTJ 48 AR Jonsboro/25, 26 295
0410 WBXX 20 TN Crossville; WB20 557
WCTE 22 TN Cookeville 538
0435 WNPX 28 TN Cookeville 538
0713 KBSI 23 MO Cape Girardeau 416
0745 WPSD 6 KY Paducah; local off 437
0753 WWT0 35 IL LaSalle 669
1345 WEHT 25 IN Evansville 519
WFIE 14 IN Evansville 519
1355 WKMA 35 KY Madisonville; KET 492
WTCT 27 IL Marion 459
1408 WDKA 49 KY Paducah; UPN49 437
WWAZ 19 KY Madisonville; WB19 492

Victor Frank
12450 Skyline Blvd.
Woodside, CA 94062-4554
e-mail frank@horizon.sri.com
(650)851-7031

1420 WHMB 40 IN Indianapolis; Rel. 663
1440 WKOH 31 KY Owensboro; KET 528
1445 WFYI 20 IN Indianapolis 663
1518 WSIU 8 IL Carbondale 449
1610 WEVV 44 IN Evansville 519
Es 1750 WMAR 2 MD Baltimore 1072
17 Es 1415 WBAY 2 WI Green Bay 892
1455 XEFB 2 NL Monterrey; 21 MTY 611

Eric Bueneman (N0UIH), 631 Coachway Lane, Hazelwood, MO 63042-1347 Phone: (314) 839-9751 (prepaid only), E-mail: N0UIHERic@aol.com
World Wide Web:
<http://members.aol.com/n0uiheric/k-index.html>

Equipment: Alaron 12-inch (30 cm) black and white television, Radio Shack VU-210XR with Radio Shack Archerator at 33 feet (10 meters) above ground level, 540 feet above sea level. All times CST, all distances in miles/kilometers.

December 1, 1998 (trop)
0143 KSNF 16 MO Joplin (over WUSI/WMTU) 250/402
0147 WLKY 32 KY Louisville (Grade A signal) 250/402
0149 Evansville, IN 14, 25 (both Grade B) 165/266
0203 KTEJ 19 AR Jonesboro (ID for AR ETV) 200/322
0210 KMCI 38 KS Lawrence 255/410
0307 WPTY 24 TN Memphis "ABC 24" (KNLC off) 250/402
0315 WDRB 41 KY Louisville "Fox 41" 250/402
0322 WMTU 16 TN Jackson "UPN 30" 235/278
0330 WNPX 28 TN Cookeville/Nashville 325/523

A long string of highs in the 60s and 70s led to this opening to kick off the Christmas season. With local KNLC-24 off for maintenance, the signal on WEHT-25 was much better. KTEJ-19 was a pleasant surprise, carrying educational videos, and IDing for the entire Arkansas Educational TV network. With KNLC off, it was easier to bag DX on channel 24, and I was able to do just that, pulling in WPTY. WNPX-28 was another pleasant surprise, carrying Pax's WorshipNet //WPXS-13 and K40FF-40. The duct extended basically from Lawrence, KS to Louisville, KY.

December 1, 1998 (trop)
2315 WLIO 35 OH Lima (Grade B signal) 360/579
2320 WHMB 40 IN Indianapolis (over K40FF) 240/386
2322 WUAB 43 OH Lorain/Cleveland "UPN 43" 475/764
2325 WRGT 45 OH Dayton 340/547
2330 WXIN 59 IN Indianapolis (Local Grade A signal) 240/386
2355 W56DN 56 IN Evansville (w/Panda Shopping Network) 165/266

Western TV DX E. Bueneman's report cont'd

December 2, 1998 (trop)
0002 W38BK 38 IN Evansville (TBN) 165/266
0003 WKOH 31 KY Owensboro (KET) 195/314
0004 WKZT 23 KY Elizabethtown (KET) 260/418
0013 WGRB 34 KY Campbellsville "WB 34" 290/467
0018 WTVS 56 MI Detroit "Detroit Public TV" 460/740
0020 WDPX 26 OH Springfield/Dayton (ex-WTJC) 360/579
0030 South Bend 16, 22 (Grade B), 34, 46 300/483
0039 WVIZ 25 OH Cleveland 500/805
0043 WWHO 53 OH Chillicothe/Columbus "UPN 53" 400/644
0046 WKBD 50 MI Detroit "UPN 50" 460/740
0101 WQHS 61 OH Cleveland 500/805
0117 WDKY 56 KY Danville "Fox 56" 315/507
0133 WKJG 33 IN Fort Wayne "NBC 33" 320/515
0134 Toledo, OH 11 (under KPLR), 24 (mixing w/KNLC), 36 (Grade B) 415/668
0153 WFFT 55 IN Fort Wayne "Fox 55" 320/515
0159 WPTA 21 IN Fort Wayne "21 Alive" 320/515
0207 WSJV 28 IN Elkhart/South Bend "Fox 28" 305/491
0209 WOAC 67 OH Canton/Akron 500/805
0250 WFWA 39 IN Fort Wayne 320/515
0303 CICO32 32 ON Windsor (briefly w/LKY) 455/732
0332 WXIX 19 KY Newport/Cincinnati, OH "Fox 19" 325/523
0339 WSTR 64 OH Cincinnati "WB 64" 320/515
0447 KYOU 15 IA Ottumwa/Kirkville, MO "Fox 15" 185/298
0452 WHO 13 IA Des Moines (briefly over jumble) 255/410
0500 WSFJ 51 OH Newark/Columbus "Spirit 51" 435/700
0530 WCET 48 OH Cincinnati (CBTP) 320/515
0550 WTVW 7 IN Evansville "Fox 7" (briefly over jumble) 165/266
0602 WKMA 35 KY Madisonville 190/306

This is the second time in four months that an opening has occurred into IN/KY/OH/MI, but one Canadian was present this time. New LPTVs were added from the Evansville area, along with two newly-logged Kentucky Educational Television stations. I was able to pull in WXIN-59 like a local station, and WHMB-40 was beating K40FF most of the night. Again, I was able to null down locals KMOV-4 and KPLR-11, and even the strongest UHF signal at this QTH, KDNL-30, had a signal trying to poke in underneath. With temperatures unseasonably warm again on December 1 (with a high in St. Louis of 61 degrees Fahrenheit/16 degrees Celsius), the trop just kept on coming in. I even heard some DX on the 2 Meter Ham band, but couldn't make any DX contacts.

The open VHF channels, except for 6 and 12, had several stations on them (reminding me of the Class D AM stations on 1230, 1240, 1340, 1400, 1450 and 1490 kHz). Channel 6 was dominated by WPSD, while WILL and KFVS traded places dominating on channel 12. WHO-13 was a major surprise, emerging

over the jumble on 13 briefly. WTVW-7 has become somewhat of a rarity in recent years, it was dominant in KHQA's null when it was an ABC affiliate. With the new stations, I'm now within striking distance of 300 stations.

73, Eric (N0UIH)

Fernando Garcia, San Salvador 415, Rincon de la Sierra, Cd Guadalupe, NL, 67181 MEXICO
ferrtrvd@sdm.net.mx

Equipment: Sony KV-27EXR15, Screened CM 7'dish 85', RG11, UA900 amp. Sony KV-13TR27, CM 1110 30', CM 8 bay UHF array 60' .1800' ASL, No re-logs in the same month, only tropo 500+ miles.

November 8 CST
0700 KXTX 39 TX Dallas 518
This is the easiest catch from DFW area
KFWD 52 TX Fort Worth 522
in-out all day long
1500 KDTX 58 TX Dallas 518
1630 KPXD 68 TX Arlington 518
KHSX 49 TX Irving 518
1645 KTXA 21 TX Fort Worth 518
KDFI 27 TX Dallas 518
under KLDO-Laredo
Observing WX maps, there was a dry line N-S on west side of this opening, it was for sure contrasting with humid air from Gulf.
2200 WLAE 32 LA New Orleans 694
Dry line moves to TX coast line.
WGNO 26 LA New Orleans 694
WNOL 38 LA New Orleans 694

November 9
0515 KAMC 28 TX Lubbock 553
This is my DX alert from nw and w TX
0530 KCPN-LP 65 TX Amarillo 677
Shop at Home
KCIT 14 TX Amarillo 677
unid ch 36 San Angelo advs.
K36CC 36 TX Kress 611
KVII 7 ABC promos
0600 K53FR 53 TX Plainview PTCB 599
KBZO-LP 51 TX Woodrow Univision 558
0615 K36DV 36 TX Amarillo Telemundo 675
0645 Now turning dish for Gulf tropo, this was dead at 5 AM
WUPL 54 LA Slidell 705
WPMI 15 AL Mobile 838
WMAH 19 MS Biloxi 770
WEIQ 42 AL Mobile 825
0700 WXXV 25 MS Gulfport 764
1345 WFSG 56 FL Panama City 929
I came back home at this time for half an hour. I usually came back until 7 PM
WMPV 21 AL Mobile 842
WHBR 33 FL Pensacola 838
1400 WPXL 49 LA New Orleans 688
WPAN 53 FL Fort Walton B. 869

Western TV DX F. Garcia's report continues

under local			
KLPB	24 LA	Lafayette	567
WJTC	44 FL	Pensacola	842
under KLUJ Harlingen			
WSRE	23 FL	Pensacola	857
under KVEO Brownsville			
November 16			
1900	KADN	15 LA	Lafayette 586
2000	KLTL	18 LA	Lake Charles 548
	KVHP	29 LA	Lake Charles 530
November 17			
0130	KLAX	31 LA	Alexandria 618
0545	WVLA	33 LA	Baton Rouge 633
November 18			
0200	KUVN-LP	31 TX	Fort Worth 521
0215	KXAS-DT141	TX	Fort Worth
DT signal overriding KWEX San Antonio			
0500	KMPX	29 TX	Decatur 537
0545	KLDT	55 TX	Lake Dallas 544
0700	KLPA	25 LA	Alexandria 619
1900	KYPX	42 AR	Little Rock 803
	KASN	38 AR	Pine Bluff 772
	KMSS	33 LA	Shreveport 615
	KVTH	26 AR	Hot Springs 739
1915	WPTY	24 TN	Memphis 904
	KETK	56 TX	Jacksonville 532
	KFXK	51 TX	Longview 557
1945	KLRT	16 AR	Little Rock 782
	KTVJ	48 AR	Jonesboro 896
VTN // KVTH-26			
2000	WFBI	50 TN	Memphis 904
	KPOM	24 AR	Fort Smith 783
November 19			
0145	unid	ch 62	Shop at Home Lubbock hdn
	KPTB	16 TX	Lubbock 555
0330	KJTL	18 TX	Wichita Falls 598
0530	K19DK	19 TX	Welch 519
PTCB progr. o/u K19DF-San Angelo w/TBN			
	K58	58 TX	Cisco 463
PTCB progr. o/KDTX, ID thanks to Jeff Kruzka			
get info of the station via email from PTCB headquarters			
	K47DK	OK	Grandfield 598
	K66DB	66 TX	Seminole 511
multiple KTVJ FOX 34 promos.			
0600	KCBD	11 TX	Lubbock 555
	KLBK	13 TX	Lubbock 554
	KTXT	5 TX	Lubbock 558
unid bars, SAP w/NOAA WX			
0615	KPSG	43 OK	Oklahoma City 706
2100	WLPB	27 LA	Baton Rouge 638
2130	K69HD	69 LA	Church Point 586
	K66FI	66 LA	Opelousas 599
November 24			
1945	KOPX	62 OK	Oklahoma City 705
	KOKH	25 OK	Oklahoma City 703
	KTBO	14 OK	Oklahoma City 705
November 25			
0400	KWMJ	53 OK	Tulsa 766
0415	KWHB	47 OK	Tulsa 765
	KDAF	33 TX	Dallas 518

0530	KERA	13 TX	Dallas 518
DFW UHF blasting in			
0545	DFW-DTt	9 TX	
	KXAS	5 TX	Fort Worth 518
	KDFW	4 TX	Dallas 518
0600	KTVT	11 TX	Fort Worth 518
	DFW-DTt	35 TX	
Additional days of November with 500+ miles and furthest log:			
10	DFW, TX	518	
11	New Orleans, LA	690	
20	Lake Charles, LA	530	
21, 22 & 23	DFW, TX	518	
26	DFW, TX	518	
27	Tulsa, OK	765	
28	Mobile, AL	840	
29	Panama City, FL	930	
30	DFW, TX	518	
No 1000+ miles this November, as previous five years.			
DFW area was logged for the last 15 days in a row of the month. Several days KXTX-39 seemed to become a backscatter station.			
73's Fernando			

Pat Dyer, WA5IYX, 5315 Silvertip Drive, San Antonio, TX 78228-2744

December 1998				UTC
08Es	1725	WRBL	3 GA	Columbus
08	1728	WDIQ	2 AL	Dozier
08	1732	WSAV-	3 GA	Savannah
10 Es	1728	KSNC	2 KS	Great Bend
10	1753	KNOP	2 NE	North Platte
11 Es	0235	XHBC	3 BCN	Mexicali
11	0329	KGAN	2 IA	Cedar Rapids
11	0343	KIMT	3 IA	Mason City
11	0349	KTCA	2 MN	Minneapolis
11	0415	KMTV	3 NE	Omaha
11	0429	KUSD-	2 SD	Vermillion

William Eckberg 1032 Sterling Rd., Dixon, IL 61021

November 1998				CST
15tr	0600	KPOM	24 AR	513
	2335	WYMT	57 KY	449
	2355	WCFT	33 AL	593
	2359	WAFF	48 AL	503
16tr	0015	W21BE	21 IL	Champaign 124
	0105	WJSU	40 AL	585
	0110	WUNF	33 NC	558
	0400	WYMT	57 KY	449
28tr	0535	WCFT	33 AL	593
	0600	WUXP	30 TN	408
	0800	WAFF	48 AL	503
	0840	KZDX	54 AL	503
	0900	WJSU	40 AL	585
	0930	WHNT	19 AL	503
	1015	WNAH	58 TN	408
	1030	WNPX	28 TN	434
		WAAY	31 AL	503

Western TV DX Wm. Eckberg's report cont'd

1630	KXNE	19 NE	402
	KHNE	29 NE	464
1900	KDSD	16 SD	509
2010	KSAX	42 MN	404
29tr	0410	KSAX	42 MN 404
	0440	WUNF	33 NC 558
	0910	W36AR	36 IN Lafayette 156

Highlights for the month were two 600 mile tropo openings to the south in mid- and late November. The latter dates included 500 mile tropo into NE SD and MN in the early evening. Excellent DX targets were noted on all night with IDs and included Louisville 41, Hazard 57, and Asheville 33.

Incorrect information was in my two most recent reports. Most are recent changes that will be of interest to others and were brought to my attention by members. KDLT-5 Mitchell, SD traded calls with their satellite DDLV-46 in Sioux Falls. The latter is a regular here. K44CW Sioux Falls is not KBNW-LP. KSCB-53 (Siouxland Christian Broadcasting) in Sioux Falls is actually K53EG. A channel 51 in Sioux Falls is reported to have also used the call KSCB. I have a photo in the camera with the KSCB call on ch. 53 also. KNLJ-25 Jefferson City, MO has two translators on ch. 68 which are KNJE-LP in Eureka Springs, AR and K68EL in Marshfield, MO. The latter is 27.6 kW, not 942 Watts as I stated. The closest station is the one counted. Both translators are in exactly the same direction.

1998 will be the worst E skip season and best tropo season for me since I resumed TV DXing in 1983. Indeed, a strange combination! Total loggings through November include 250 stations. Eighty-three were skip and 167 were tropo. The latter includes all new and over 400 mile loggings as recorded in the past. Two tropo openings were over 800 miles. Both were recent.

The screened dish (cat whiskers) was lowered and repaired four times in 1998. Winds of over 70 MPH occurred as many times. I removed alternate cat whiskers to decrease wind load. The side lobes seem to have expanded with negative consequences. I considered 14 a clear channel, but can still count seven stations and a police broadcast while rotating my dish under normal conditions--an example of how crowded the TV bands are here.

Frank Merrill, P.O. Box 669, Macomb, IL 61455

Equipment: Icom R-7000 with video adaptor, fed into monitor; or, Zenith "1310" 13-inch color TV from

1978-1980 era. Antenna Winegard 8100? (predecessor to 8200) at 40 feet, combo U-V Winegard preamp. (Modest setup, am I supposed to see all this stuff?) All tropo in this report!

August 26, 1998 (note 1)				EDT
0300	K40FF	40 MO	St. Louis Mt Vernon-13	128
	WDLA	49 KY	snowfree	
2100	Alabama	54/48/42/40/33		
	WKMR	38 KY		418
2206	WKLE	46 KY		469
2249	WHBQ	13 TN		369
2300	WOWL	15 AL		422
2330	Atlanta	69 GA		575
August 27, 1998				
0026	WCBI	4 MS	nearly atop KMOV-MO	496
0334	Chattanooga	TN	45,61	475
0630	WTVC	9 TN		475
0635	Atlanta	36,69	GA	575
0700?	WKAB	32 AL	forgot to note time	608
0744	WTOK	11 MS	nearly on top	569
1137	WMCF	45 AL		608
1224	WSBN	47 VA		497
1300	WCBI	4 MS		496
	WABG	6 MS		480
1830	WBBJ	7 TN	on top--rare	349
	KFVS	12 MO	total local quality	225
	WHBQ	13 TN		369
1908	WMAV	18 MS		425
	Tuscaloosa	33 AL	snowfree	
	WSBN	47 VA	(CCI only)	497
1925	WKNO	10 TN	far atop, rare	369
2057	WFIQ	36 AL	snowfree, first time so strong	422
2120	WPTY	24 TN	assumed, with ABC	369
Northern ALs blasting in, some Atlanta U's				
	WKMJ	68 KY	nearly SF, VA CCI	303
	WUAB	43 OH	nearly atop WYZZ	460
	W.VA.	59 WV	CCI	
2130	WPXX	50 TN	new calls, constant ID	369
	WCOV	20 AL	probably, almost WICS	608
2130	WMAW	14 MS	CCI	560
	WTVC	9 TN		475
2158	WKYU	24 KY	Note 2	329
2210	WKCH	43 TN	snowfree	479
2230	WKXT	8 TN	Note 3	479
August 28, 1998				
0011	WCNC	36 NC	not snowfree but strong	646
0029	WJZY	46 NC	only 2nd time; useless "UPN46" ID, strong	660
0106	WLFG	68 VA	nearly snowfree	510
0114	WSLS	10 VA	CCI	617
0121	WSPA	7 SC	inconclusive, but probable; "+" audio	611
0230	WCNC	36 NC	only one left	646
August 29, 1998				
0420	Blue Ridge	powerhouses	19/39/59 CCI/68	
	Detroit U's & WXYZ-7			410
	Toledo U's			381
	Windsor	32, 54		410
0500	WGKI	33 MI		376
	WGKU	45 MI		443

Western TV DX *Frank Merrill's report cont'd*

W68CD	68 OH (Toledo TBN)	381
0540 CII22	22 ON	450
0607 W44	44 MI TBN "z" offset, toward Ann Arbor, any ideas, not toward Meadville, PA	
<i>Ed: WDW-LP Detroit is licensed, W44AZ, Ann Arbor has a CP, but both are supposed to be - offset.</i>		
<i>September 4, 1998 (see notes 1,4)</i>		
2317 KSNB	4 NE	391
<i>September 5, 1998</i>		
0010 KFPX	39 IA has "constant" ID	151
	KABY 9 SD	526
	KHAS 5 NE supremely rare-watchable	405
0420 K56FC	56 NE Grand Island billboard	404
	KGIN 11 NE atop KDIN-IA all morning	404
0759 KPLO	6 SD	521
0959 KTTM	12 SD	471
1110 KWCM	10 MN nearly atop	426
<i>September 6, 1998 to</i>		
0220 WUPW	36 OH	389
	KELO 11 SD	369
	KRWF 43 MN	362
	KTWU 11 KS earlier	284
0235 KMSP	9 MN over KCRG	339
	North IN LPTVs 67.69	
0248 W19	19 OH Defiance billboard snowfree	334
<i>Ed: WDFM-LP</i>		
0313 Northern WIs	14,32	
0435 CBFT	54 ON stronger than WTVS-56	410
0516 KABY	9 SD	526
0554 WQHS	61 OH	470
0558 W63AH	63 OH Maplewood WPTD-16	347
	First time in 12 years	
0640 WUAB	43 OH nearly over WYZZ	460
<i>September 7, 1998</i>		
0330 unID	61 St. Louis? see note 5	
	WWAZ 19 KY snowfree	275
<i>September 10, 1998</i>		
2010 Wausau	WI 7, 9, 20 strong	
	WGKI 33 MI	376
	WGKU 45 MI	443
<i>September 11, 1998</i>		
0200 Boffo Tr on FM,	very little on TV	
0515 WLEF	36 WI	379
0735 KSAX	42 MN snowfree	444
	KRWF 43 MN	362
	North MI 9/29/33/45	
2110 Blue Ridge Biggies	47(CCI)/59(CCI)/68	
<i>September 26, 1998</i>		
0000 WTCI	45 TN	475
	WMCN 45 AL	608
0000 N. Alabama	31,54, etc.	
	Tulsa 53 OK	
	KHOG 29 AR "then it all died"	
<i>October 10, 1998</i>		
0000 etc. East	TX 45/51/57	
	MN 29/45 strong	
	WJFW 12 WI	364
2200 WRCB	3 TN	475
-2300 WDBJ	7 VA	617
	Blue Ridge stuff 47/59/68	

CBFT	61 ON	563
WNEO	45 OH	502
WUPW	36 OH	389
KVBM	45 MN	339
2321 WQLN	54 PA	562
CFMT	69 ON	510
2358 CITY	57 ON	620
<i>October 11, 1998</i>		
0055 WOAC	67 OH	488
	WWAX 53 OH	415
0105 CFMT	47 ON	620
0328 CBLFT	44 ON full CB, distinctive "warble" tone, a very most wanted	684
	CICA 19 ON	620
0348 WJET	24 PA first time in 8-10 yrs?	562
0349 KPOM	24 AR	405
	Houston TX weak 14,20,45,67	800
	KTBO 14 OK	510
	Dallas 21 TX	630
0421 KXAN	36 TX	810
0446 London	40 ON	510
0500 KNVA	54 TX	810
	KXAM 14 TX	807
0520 KTBW	55 TX 3/4 CB "KTBU Conroe"	750
0400? C	36 ON forgot to mark down	589
0544 WLEF	36 WI	379
2100 Cleveland/Detroit U's		
	WXYZ 7 MI	410
2220 WLFQ	68 VA this sure gets out	510
	WGKU 45 MI	443
<i>October 12, 1998</i>		
0101 WJRT	12 MI	401
	WOAC 67 OH	488
	WAQP 49 MI	401
	London 45 ON	510

Notes:

1. Nights of 26/27 August and 04/05 Sept. I probably missed many potential loggings (including needed Ozark AL-34), but these two overnights "kicked a _" on FM, and I spent most of my effort FM DXing.
2. 2158/27 August Apparently, unknown to me, sometime earlier this summer, Lead Mountain Technologies INC. moved the lead mountain (which formerly blocked this) to NC, to block WLXI-61 on August 22. After years of never even a trace of this, and with WQPT's recent major ERP increase, I thought this was a goner! Seen with "Class of 2000" slate, and "KYU" also on it, "24-" offset (zero to WQPT, several "big bars" CCI).
3. 2230/27 August It was raining by 2200, and overnight, but the opening didn't die as usual. No actual ID on this, but way atop at the time, CBS, "z" offset, correct direction. Nothing else even remotely fits-certainly not WROC! (WJW-OH is now Fox.)
4. 4 September Of course there was tropo on this date! It seems like there is always tropo on September
4. Usually I'm at a National Radio Club convention, thus missing it.

Western TV DX *Fr. Merrill's report concludes*

5.7 September "They're ba-a-a-ack!" Again, some kinda translator going on and off with TBN-presumably as WWTO-35 fades in and out of local strength at St. Louis or wherever this thing is. I didn't stick around to see WWTO ID, but we've seen it here before, as long as 7 or 8 years ago. By far the strangest and most mysterious recurring reception for either of us here.

Dave Pomeroy, 2321 SE Libra Ct. Topeka, Kansas
66605-3505 (785) 266-5477

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March 29, 1998 tropo

0630	33-39-52-58-68 Dallas	
	25-44 Waco, TX	
0700	K33EK 33*OK Sand Springs	221
	KTPX 44 OK Okmulgee	
	K66EK 66 OK Bartlesville	
	KNCT 46 TX Belton	
	K61GC 61 KS Wichita	
	KTVG 17 NE Grand Island	195

May 5, 1998 tropo

2155	unID 25 "Fox 25"	
2200	unID 54 "Praise TV"	
	KSBI 52 OK Oklahoma City	

May 19, 1998 tropo

2230	KOPX 62*OK Oklahoma City	255
	unID 46 looked like KCLJ maybe KDLT?	
	KRSC 35 OK Claremore	

June 14, 1998 Es

1830	WSAV 3 GA Savannah	936
	WCBD 2 SC Charleston	
1900	WEDU 3 FL Tampa	1088

June 27, 1998 tropo

0130	WICS 20 WRSP-55 Springfield, IL	335
	25-34-43 Oklahoma City, OK	
	27-49-58 Dallas, TX	
	K53?? 53*MO Joplin	

June 28, 1998 Es

2215	KYW 3 PA Philadelphia	1086
	WTKR-3 Norfolk, VA	1054

June 30, 1998 tropo

0730	19-31-25-47 Peoria, IL	
	WICS 20 IL Springfield	
	K60CL 60 IA Keokuk	

August 8, 1998 tropo

2305	WRSP 55 IL Springfield	
2330	WLKY 32 KY Louisville	530
	WGTE 30 OH Toledo	667
	WFWA 39 IN Ft. Wayne	570
	WHMB 40 IN Indianapolis	507
	WTLW 44*OH Lima	619
	WTVF 47 IL Peoria	

August 21, 1998 tropo

0315	WCCU 27*IL Urbana	420
0615	K61CG 61 KS Wichita "very strong"	
2200	WSTR 64 OH Cincinnati	596
	20-40-59 Indianapolis, IN	507

WICS	20 WRSP-55 Springfield, IL	
WCVN	54*KY Newport	
WAND	17 IL Decatur	369
WKEF	22 OH Dayton	609
WTIU	30 IN Bloomington	
WWAT	53*OH Chillicothe "UPN 53"	670
unID	51 OH Newark?	

August 22, 1998 tropo

0410	WXIX 19 KY Newport, KY (Cincinnati)	594
	WIIIB 63 IN Bloomington	509
0500	WTWO 2*IN Terre Haute	442
	WFYI 20 IN Indianapolis	507
	KDIN 11 WHO-13 Des Moines, IA	
	KSIN 27 IA Sioux City	244
0830	WICS 20 IL Springfield	
	WEEK 25 IL Peoria	
1230	40,45,59 still in	
2130	WSJV 28 IN Elkhart	
	32-44-66 Chicago, IL	
	WHME 46 IN South Bend	530
	KYOU 15 IA Ottumwa	246
	WSEE 35 IL LaSalle	

Sorry I've been so slow getting these off to you. I have some more and will try to get them to you before too long. After 25 years I forgot how much time a small child takes up. I missed a lot of DX time when we were off to Romania to pick up Josie. After two weeks in Europe we spent some time with her in Nova Scotia and Newfoundland. We were in St. Pierre et Miquelon for three days. They use the European system, but the bed and breakfast only had cable. There were antennas pointed to Canada so I guess some folks had NTSC sets or ones that could tune both systems. KTWU-11 is now on 24 hours so channel 11 is now off limits for DX purposes.

Dave

Victor Frank, K6FV, 12450 Skyline Blvd. Woodside, CA 94062-4558

Equipment: 5' screened dish @ 25', 1765' AMSL. HD-73 rotor, Radio Shack preamp, Icom R-7100, TV-R7000 TV adapter.

The two stations below are new TV station IDs for me. K34DF is listed with 37.6 kW, K16CX with 12 kW. KMSG-59, listed last month was a dup. so 68-1+2 =69 TV stations ID'd this summer/fall, none of which is DX or outside of Northern California.

November 1998	Call Letter	Keyer ID	UTC	km
23	0254	K16CX	16 CA Grass Valley	483.251 215
25	0637	K34DF	34 CA Redding	591.245 355

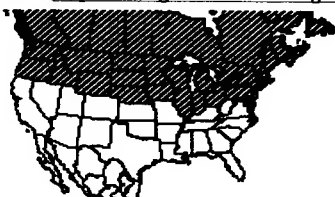
Thanks to Dennis Smith, who wrote that he observed portable in late March 96 K16CX from Sierra College near Rocklin with xmtr on Wolf Mtn. with religious programs, community calendar & KXPR-FM audio.

NORTHERN FM DX

JANUARY 1999

DEADLINE: The 5th of the month before publication
LOG CUTOFF: 4 months from postmark
COLUMN REPORTING AREA: See map to the right
 (also includes Europe & Asia)

EDITOR: GREG CONIGLIO
 90 SLATE CREEK DRIVE APT. #3
 CHEEKTOWAGA, NEW YORK 14227
 E-MAIL: coniglio@localnet.com
 WEB: http://www.geocities.com/~wgrc



HAPPY NEW YEAR!!

FRANK MERRILL - P.O. BOX 669 - MACOMB, ILLINOIS 61455

Equipment: Tandberg 3001-A tuner (with McIntosh MR-78 kept as "standby"). CM Stereo Probe 9 (4408) yagis at 45 ft. Andy Bolin phase box (better signal meter on Tandberg is better for phasing)
 * impossible without ohasing!

AUGUST 1998 TR

26 TR
 2116 WKUL 92.1 AL Cullman, NOTE 1 481
 2206 WITZ 104.7 IL Jasper, thru 7-mile WLMD *
 2230 WFOX 97.1 GA Gainesville, not heard in years * 567
 2247 WAMZ 97.5 KY Louisville, "rare" city, period, WHY??? 303
 2249 WXBQ 96.9 TN Bristol, calls * 530
 2305 WBHJ 95.7 AL Tuscaloosa, legal ID 427
 2324 WGGC 95.1 KY Glasgow * 350
 2330 KWKC 106.1 MO Charleston 254
 2341 WBVN 104.5 IL Carriers Mills, taking out WFMB without any phasing! 220

27 TR

0030 WTXH 98.1 AL Russellville "Tuscaloosa's country music station, 98.1 WTXH" 441
 0050 WAFM 95.3 MS Amory, NOTE 2 * 463
 0122 WBLEI 100.5 MS Batesville, "country 101", logged anyway later * 426
 0158 WYMX 99.1 MS Greenwood, "Max 99 WYMX Greenwood" 480
 0228 KOKR 96.7 AR Newport *, NOTE 3 336
 0229 WCNA 95.9 MS Potts Camp, "Country 95 WCNA between songs" 420
 0308 WVEZ 97.5 TN Trenton *, EZ 97.5 323
 0405 WSTR 94.1 GA Smyrna, walkathon for metro Atlanta and "Star 94" slogan * 566
 0407 WZBQ 94.1 AL Carrollton *, today's best music 94.1 ZBQ later noted atop, without phasing, burying WYMX in the same dir 516
 0424 WWOQ 90.9 TN Cookeville * 407
 0453 WZLQ 98.5 MS Tupelo, "Kicks 99 is WZLQ & WELO Tupelo" 440
 0506 WLSM 107.1 MS Louisville, calls, "playing the widest variety of k around, on WLSM, NOTE 4 *
 0524 WNKX 96.7 TN Centerville, "Country Kicks 96.7 is WNKX", country" 366
 0559 WQPR 88.7 AL Muscle Shoals, generic AL Public Radio ID, took out needed WAYM * 427
 0620 WJSP 88.1 GA Warm Springs *, Peachtree Public R., trying for WMAW 618

0632 WQQK 92.1 TN Hendersonville, "92Q", downtown Nashville ad, mid-Tenn. Mentions in promo, etc. a major "wanted" logging! 361
 0648 WBLG 107.1 KY Smiths Grove * 336
 0649 WACR 103.9 MS Columbus, urban/soul, "103.9 WACR Tupelo & Tuscaloosa's song station", WACR van, etc. 496
 0720 WHMA 100.5 AL Anniston, "The most music, hot country Alabama 100" softball "up in Fort Payne", glad to log before it goes to GA! * 539
 0726 WBLE 100.5 MS Batesville, "taking us up to Miss. Headline news on this Thursday, at Country 101 'BLE'" 426
 0750 WUSY 100.7 TN Cleveland, wanted WDMS 0821 WRJB 98.3 TN Camden, Super 98, rare 333
 0834 WTNV 104.1 TN Jackson, blasting through Illinois' stations without phasing 349
 0858 WVAS 90.7 AL Montgomery 608
 0925 WAYM 88.7 TN Columbia *, "Way FM", traffic reports with I-65, Nashville, etc., contemp g 388
 0943 WDJC 93.7 AL Birmingham *, local ads, calls, and contemp. G 524
 0946 WYSE 94.5 AL Birmingham, "Soft Rock 94.5", without phasing 524
 1028 WBDC 100.9 IN Huntington, last logged in the late 1980's * 248
 1053 WUAL 91.5 AL Tuscaloosa, Alabama Public Radio with KSLH-MO obliterated 427
 1107 WTUG 92.9 AL Tuscaloosa, calls 427
 1137 WBHK 98.7 AL Warrior, Birmingham calendar "98.7 Kiss FM", local ads, etc. * 505
 1201 WYMS 97.5 MS Oxford, "Miss 98 is WYMS and WSHU Oxford/Tupelo" NOTE 5 425



NORTHERN FM DX

JANUARY 1999

Frank Merrill's report continues:

AUGUST 27th continued:

1224 KFHN 107.9 AR Jonesboro 319
 1252 WOWC 102.5 AL Jasper, legal ID with only "Jasper" mentioned 494
 1300 WONA 95.1 MS Winona, "WONA Winona/Hollywood (?)", ph/WGGC, and a severe mix with WZDQ-IL * 484
 1933 WUMR 91.7 TN Memphis, * NOTE 6 369
 1957 WMFS 92.9 TN Bartlett, * "Solid rock 92-9 MFS", after local ads & promos 365
 2001 WKSL 107.5 TN Germantown, "This is the sound of Kiss FM WKSL Germantown-Memphis, Kiss Fm 107.5" ... 374
 2012 KXHT 107.1 AR Marion, "The New Hot 107.1" requests 362-1071 (no area code??), Memphis ads, young urban-format demos 360
 2326 WLMF 102.9 IN Carrollton * calls, oldies 273
28 TR
 0010 WAXL 103.3 IN Santa Claus, "The best of the 70s, 80s, 90s, WAXL Santa Claus", break in Colts football, Indpls. Phased * 258
 0104 WMIT 106.9 NC Black Mtn. W. NC wx 564
 0100 WIMZ 103.5 TN Knoxville 476



SEPTEMBER 1998 DX

4 TR (NOTE 7)

2126 KNLV 103.9 NE Ord, High School FB (St. Paul vs. Ord), KNLV sponsors at 2127 438
 2200 KIXX 96.1 SD Watertown 449
 2213 KRFS 103.9 NE Superior, Superior FB, at 2327: "KRFS Superior country 104" 391
 2213 (KNJP) 92.1 NE Sargent, NOTE 8 460
 2256 KKPR 98.9 NE Kearney 442
 2349 KRYN 102.3 NE Kearney, "You're on Y-102, Kearney's Country" 442

5 TR

0050 KPNO 90.9 NE Norfolk, *, g, needed, faded to probably KRNU 367
 0103 KREP 92.1 KS Belleville, *, calls, weather, "KR-92", tough w/phased WNNK * 371
 0200 KVSF 105.5 KS Beloit, *, "This is KVSF-FM, The Voice of the Solomon Valley" (no legal ID), KZZT-MO phased, much wanted, b 399
 0310 KKYT 105.3 NE McCook 525
 0316 KMTY 97.7 NE Holdrege, "Holdrege" insert into satellite pgmg, right at tune-in 457
 0334 KFEF 101.1 KS Oberlin, real country 523
 0346 KHAZ 99.5 KS Hays, *, "KHAZ" jingle between 2 country songs 473
 0358 KJLS 103.3 KS Hays, "KJLS Hays" 473
 0404 KQLS 100.3 KS Colby, "Hundreds more songs, KQ100" between songs, confirmed by them, phased WKAI 100.1 super here 555
 0420 KGCR 107.7 KS Goodland 591
 0459 KJLT 94.9 NE North Platte, *, legal ID, extremely faint, struggling w/KGGG-IA, phased WAAG-IL 530

SEPT 4, cont

0555 KOGA 99.7 NE Ogalalla 580
 KELN 97.1 NE North Platte 530
 0635 KVHT 106.3 SD Vermillion 362
 0638 WMUS 106.9 MI Muskegon *, while pointed towards Nebraska! 295
 0645 WCXT 105.3 MI Hart 315
 0659 WLCS 98.3 MI Muskegon Hts, "WLCS N. Muskegon", old CKLV type jingle, followed by 20-20 News instrumental stiner, cool! , if you remember Detroit 60's radio 297
 0723 KPHR 104.3 SD Milbank, while pointed at Muskegon! 447
 0733 KJAM 103.1 SD Madison, *, Weather with many SD mentions, Madison temp, calls 411
 0759 KTSD 91.1 SD Reliance, "Public radio for central SD, this is KTSD Reliance at 91.1" 521
 0759 KDQM 94.3 MN Windom, * 328
 0807 KLQP 92.1 MN Madison, no phasing! 422
 0816 KWYR 93.7 SD Winner, Winner, Fort Pierre, Gregory, etc. ads 513
 0824 KBRB 92.7 NE Ainsworth, PSA Brown County Clinic in Ainsworth, calls, Paul Harvey at 7:30, no phasing, trying for KLGA-IA! 498
 0838 KMIT 105.9 SD Mitchell 439
 0846 KQRN 107.3 SD Mitchell, *, "SD's best rock and roll 107.3 The Rock" * 439
 0852 KDDG 105.5 MN Albany, *, "It's 65 in St. Cloud, 67 in Albany", fading into: 409
 0852 KMGM 105.5 MN Montevideo, calls, promo, after hearing local ads 403
 0906 KILR 95.9 IA Estherville, local ads, then wham! - KIK-KCOB mix took over! 296
 0911 KBRK 93.7 SD Brookings, local contest winner, "B 93.7", SD Special Olympics, ads 412
 0928 KVXC 101.5 SD Gregory, "This is VCY America", legal ID, no phasing! 491
 0931 KTCH 104.9 NE Wayne, Wayne ad, "games broadcast on KTCH", FB summaries 352
 0953 KUTT 99.5 NE Fairbury, *, no luck yet with KOLY-SD 344
 0959 KRNU 90.9 NE Lincoln, *, rare 317
 KPLO 94.5 SD Reliance, 521
 1016 KKSAR 96.7 MN Sartell 399
 1023 ???? 99.3 IL? WGCA 88.5 noted here again! PIRATE?? From due NW, somewhat north of a KFGQ heading

6 TR

0326 KIXX 96.1 SD Watertown 449
 KESD 88.3 SD Brookings 412
 KWOA 95.1 MN Worthington 335
 0353 KYBA 105.3 MN Stewartville 252
 KJOE 106.1 MN Slayton, KLSS-IA does not get out well 357
 0420 KFSL 92.9 MN Rochester, rare 264
 0458 KARP 96.3 MN Glencoe 360
 0529 KTIS 98.5 MN Minneapolis, legal ID 339
 0532 KJLY 104.5 MN Blue Earth, topping KDAT without any phasing 282

10 TR

2024 WKJF 92.9 MI Cadillac, "WTCM" calls, simulcasting 103.5? (yes-grc) 376
 2203 WCMW 103.9 MI Harbor Springs 448

Frank Merrill's report continues:

SEPTEMBER 11, 1998 TR

0154 WSHZ 107.9 MI Muskegon Hts, no phasing, took out Aurora IL, "let Z-108 WSHZ work for you", in station promo 297
 0210 WKLA 106.3 MI Ludington 324
 WRYO 94.5 WI Eagle River 384
 0212 WHDG 97.5 WI Rhinelander 364
 0219 WKQZ 93.3 MI Midland, * 396
 0229 WXYQ 101.5 MI Mainstee, oldies, but faded out, rats! * 344
 0245 WBDK 96.7 WI Algoma 330
 WUGN 99.7 MI Midland 396
 0319 KFIZ 107.1 WI Fond du Lac "K107" and "K 107.1" 257
 0524 WKJF 92.9 MI Cadillac, still there 376
 WHSB 107.7 MI Alpena 486
 WKHQ 105.9 MI Charlevoix 433
 0557 WOWN 99.3 WI Shawano, legal ID 317
 0601 WHNN 96.1 MI Bay City, * 411
 0659 WSFQ 96.3 WI Peshtigo, * 351
 0707 WWIB 103.7 WI Ladysmith 348
 0719 WJDK 95.7 IL Seneca, "new music from Celine Dion on 'JDK'" 123
 2121 WRIF 101.1 MI Detroit 410
OCTOBER 1998 DX
11 TR
 0025 KWSJ 105.3 KS Haysville 410

OCTOBER 12

0130 WRIF 101.1 MI Detroit 410
 0156 WGPR 107.5 MI Detroit, *, county judge & political ad ment. Detroit., WGCI phased, but WZZQ a problem. 410
 0204 WDRQ 93.1 MI Detroit * 410
 0223 WKQI 95.5 MI Detroit * promo for Q 95-5 Morning crew w/Kevin O'Neal, "Q 95-5 Motor City Weather" jingle, local temps 410
 0301 WJOT 105.9 IN Wabash *, persistently blocked WCHB for me 255

Detroit's New Music



NOVEMBER 1998 DX

14 TR (MOBILE DX) NOTE 9

1459 WWHP 98.3 IL Farmer City, noted off air
 1459 W252AI 98.3 IL Decatur, 30 separate translator ID, a minute before the WEJT 105.1 ID. Why is this assigned so close to WWHP anyway?
 1500 WHOW 95.9 IL Clinton, definitely off the air, weak oldies noted (assumed WKKD)

NOTE 1 (Aug. 26, 2116): Ad for simple cleaners in Eastport Shopping Center, during Atlanta Braves break. No call letters heard; this was a guess! Nearest of three possibles I phoned them just after; guy on the board (Nick Grant) told me that I had indeed heard an ad for SIMCOE cleaners, as stated. I may have missed other DX, because he kept me on the phone for a half hour, asking questions about DX, etc. Maybe a good candidate for a sample bulletin? NEW CLASS A TR STATE. (nice! - grc) No phasing needed (!) over 30-mile WNKK.

NOTE 2 (Aug. 27, 0050): String of six ads, all for Amory, mentioning Route 25, 41, and 278 (all on map). Pretty conclusive; no calls heard; WRXX phased. NEW CLASS A TR STATE. (nice again! - grc). Lost to another station, probably WMSK-KY, which gets out well.

NOTE 3 (Aug. 27, 0228): "We're the home of NE Arkansas' best country, B 96.7" (huh? Slogan doesn't fit!) Legal ID heard much later, at 1159.

NOTE 4 (Aug. 27, 0506): No phasing! WEAL Lynnvile still not all night after all these years, so only WKRV Vandalia needed to be taken out.

NOTE 5 (Aug. 27, 1201): No phasing here, either! In fact, I was trying to phase THEM when they IDed I assumed this to be semi-local WBBA-IL!

NOTE 6 (Aug. 27, 1933): Heard at 1925 at "The Jazz Lover U-92 FM", assumed it to be them. I called, asking if the could give a legal ID after the next song, and he did! "WUMR Memphis"

NOTE 7 (September 4): Of course! Don't trop ALWAYS happen on this date?!!

NOTE 8 (Sept. 4, 2213): I doubt this station was on! With listed 100 kW, they should have blasted WNKK even without phasing. Phasing gave me only a weak KUEL Fort Dodge IA, in lieu of the usual KRLS.

NOTE 9 (September 14): These heard on a car radio, on Interstate 74, near Farmer City, Illinois.

HARRY J. HAYES - 9 HENRY STREET - WILKES-BARRE, PENNSYLVANIA

Equipment: GE Superradio w/110 kHz filter, 10 element Jerrold antenna in attic, RS amp. RS attenuator for overload. New Underlined



NOVEMBER 17, 1998 MS

0100 WYXX 104.7 MI Escanaba, "Iron City Marquette ... CBS News"
 0125 KKLS 104.7 SD Sioux Falls "Oldies 104.7, Kiss FM" (tentative)
 0130 KCLD 104.7 MN St. Cloud, "KCLD" jingle
 1030-1100 still moderately high MS activity but calmed down shortly after 11 a.m.

I have never heard MS activity as intense in my DXing career as I heard it the morning of November 17! I was expecting another disappointing session. I laid in bed about 2330 (the receiver is a short distance away from where I sleep) while being lulled into a half sleep by the "white noise". I was blasted fully awake at 0012 when an UNID 91.7 came in for about a minute and a half burst. Within about 15 minutes the band was "on fire" w/almost E-skip like conditions. I donned my robe and camped out on 104.7 for the next three hours. It was hard to turn the radio off at 0300 but I had to work the next day. I hope this happens next year! The following morning, November 18 turned out to be a dud. Obviously the shower was over.

CHARLES BERNTH - P.O. BOX 236 - EASTPORT, NEW YORK

Equipment: Adcom GTP-400 tuner, RS antenna
 Internet: cbernth@banet.net

Meteor scatter results were pretty meager. However did log following, all on 92.9 11/16
 Dillon, SC "...Eagle 92.9..."
 unid "...Z-93..."
 Hannibal, MO "...KGRC..."
 11/17 Ocala, FL "...Q 92.9..."
 11/18 Tuscaloosa, AL "...WTUG..."
 unid classical music-probably WSCD Duluth, MN

Best regards
 Charles Bernth, Eastport, NY



WORLDWIDE TV-FM DX ASSOCIATION

Serving the VHF-UHF Enthusiast

THE VHF-UHF DIGEST IS THE OFFICIAL PUBLICATION OF THE WORLDWIDE TV-FM DX ASSOCIATION, DEDICATED TO THE OBSERVATION AND STUDY OF THE PROPAGATION OF LONG DISTANCE TELEVISION AND FM BROADCASTING SIGNALS AT VHF AND UHF. WTDFA IS GOVERNED BY A BOARD OF DIRECTORS: TOM BRYANT, GREG CONIGLIO, BRUCE HALL, DAVE JANOWIAK, AND BILL THOMPSON.

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FROM THE STAFF
 TAKES A HOLIDAY BREAK

HAPPY NEW YEAR!



SOUTHERN FM DX

John Zondlo - 4009 Driftwood Circle
Yukon, OK 73099 - Email: Jpzondlo@aol.com
Deadline: 10th

*For DXers in AL, AR, AZ, CA, CO, DE, DC, FL, GA, HI, KS, KY, LA, MD, MS, NC, NV, OK, SC, TN, TX, UT, WV and Mexico



January 1999

FM Reception Tips

Courtesy of Winegard Company
3000 Kirkwood St.
Burlington, IA 52601-2000

INTRODUCTION

The first step toward quality FM/stereo reception is a quality FM tuner or receiver. However, even with the best equipment money can buy, your tuner may not produce as good a sound as an inexpensive mono FM portable. Why?

A small, mono FM radio will sound good on a very minimal signal because the speaker will filter out noise and distortion. Plus, it is not required to separate the stereo channels. However, you don't get the lifelike sound reproduction. That's the purpose for buying expensive FM/stereo tuners and receivers.

If you want real high-fidelity, true-to-life stereo sound reproduction with no background noise or distortion then you must have at least 3 microvolts, (3/1,000,000 of a volt) into the receiver, which means you also need a top performance FM antenna.

Winegard offers a variety of specially designed and constructed FM antennas. By deciding which Winegard FM antenna you require, you can get FM/stereo sound reproduction your receiver is designed to provide.

WHAT IS FM?

The letters "FM" stand for Frequency Modulation, that is, the carrier frequency is modulated (regulated or varied) by an audio signal. The FM band is widened instead of narrowed. The wider the band of frequencies employed, the greater suppression of noise or static. This results in a clarity and lack of distortion and interference unknown in AM, or Amplitude Modulation. FM occupies the 88-108MHz band which is located between channels 6 and 7 of the TV band.

FM is broadcast in either monophonic or stereophonic. Monophonic was the only method of FM broadcasting until 1961, and means the sound reproduction is being transmitted via a single channel. Stereophonic has accounted for the increasing popularity of FM, and means the sound reproduction is being transmitted via two or more independent channels through a process called "multiplexing." FM stereophonic signals have only about half the reach as monophonic transmitted at the same power level.

HISTORY

The discovery and development of FM or frequency modulation radio is one of the lesser known accomplishments in electronics yet perhaps one of the greatest.

FM was conceived about 1933 by Edwin Howard Armstrong, a noted professor of engineering at Columbia University and a recognized genius in electronic circuitry. He contributed two basic circuits to early radio which are still at the heart of most modern radio/television transmitters and receivers.

In 1932, Armstrong conceived the revolutionary idea of FM. Instead of transmitting radio waves over a narrow band of frequencies, like AM, he allowed them to swing over a very wide band of frequencies. He discovered frequency modulation was capable of transmitting intelligence with a clarity and a lack of distortion and interference unknown in amplitude modulation. Thus, Armstrong had created an entirely new radio system, FM!

To demonstrate the quality and versatility of FM, Armstrong conducted an historic test on November 24, 1934. On a single FM carrier wave he transmitted: (1) two programs from the NBC networks; (2) a facsimile reproduction of the front page of that day's New York Times; and (3) a telegraph message. This proved FM as a basic new system was capable of linking all types of communications.

Armstrong worked diligently to promote the acceptance of FM. He constructed a full-scale FM station as an experimental operation while he continued to improve his FM designs. By 1940 he held 16 patents.

In March, 1940, the FCC replaced the Channel 1 TV allocation with FM for a total of 40 channels sufficient for more than 2,000 FM stations. In addition, the FCC ruled that all television sound be changed from AM to FM, clearly the superior aural broadcasting medium.



Eric Bueneman

NOUIH - 631 Coachway Lane - Hazelwood, MO
63042-1347 - (314) 839-9751 (prepaid only) -
NOUIHeric@aol.com, EricB631@juno.com -
http://members.aol.com/nouiheric/k-index.html
CDT

Realistic STA-90, Archer VU-110 antenna with
Archerrotor at 33' AGL. Miles/kilometers.

9/29 Tr
1000 KSMU 91.1 MO Springfield, this plus 97.3,
98.7, and 101.3 were in 190/
306
1013 KGBX 105.9 MO Nixa, Springfield ads, calls, hot
AC 200/322
1032 KGMV 100.5 MO Aurora, "My Country 100.5,"
local ads, k, ACI from KATZ
100.3 220/354
1145 KHOZ 102.9 AR Harrison, wx, calls, k, w/KMMO,
KEZS 230/370

A nice opening into SW Missouri and NW Arkansas,
with Springfield stations coming in all over the dial (KWTO
98.7 was the only one heard in stereo). KHOZ 102.9 was a
big surprise...haven't heard them in ages! Other FM and
TV stations were in from the same area.
(Note: the following are in CST-jz)

11/16 Ms
2320 WZKB 94.3 NC Wallace, "WZKB southeast
weather watch," 740/1191

11/17 Ms
0046 WSTR 94.1 GA Smyrna, "Star 94," CHR, briefly
a/WMMIX 470/756

Finally managed to ID two stations on meteor scatter
propagation. WZKB 94.3 came in briefly with mention of
calls and into wx forecast when it faded to regulars WMKR
and KATI. Almost an hour and a half elapsed before
ex-local WSTR 94.1 made it through with its "Star 94" ID
and brief snippet of its CHR format before fading to WMMIX.
It takes patience to ID some DX via Ms.

12/1 Tr
0110 KIYS 101.9 AR Jonesboro, "101.9 Kiss FM,"
local ads, CHR 200/322
0342 WFGE 103.7 KY Murray, "Froggy 103," k, a/
WDBR 190/306
0407 WCBF 102.1 KY Clinton, "The Cool Fox," a/
WDXR 94.3 160/258
2340 WDDJ 96.9 KY Paducah, "Electric 96.9," CHR,
ACI from KXOK 97.1 155/249

12/2 Tr
0214 WYDS 93.1 IL Decatur, "93.1 The Party," CHR,
change from k 110/177
0528 WKYQ 93.3 KY Paducah, calls, k, a/KNSX
155/249

36

0531 WGCF 89.3 KY Paducah, local promos, calls,
CCM 155/249
This opening was primarily a TV opening, but did note a
few FMs in the 150-200 mile range here. Also noted a
format change for WYDS 93.1, flipping from country (as
'D-93') to CHR (as 'The Party').



Doug Smith

1385 Old Clarksville Pike - Pleasant
View, TN 37146-8098
w9wi@bellsouth.net CST
Technics ST-G50 tuner, big Radio Shack VHF-TV
antenna at 15'

One nice opening this month. FM was tough
due to semi-local QRM, but did land three new
ones. The Leonids were a bit of a disappointment
with much more activity than normal, but nothing
anywhere near IDable.

11/16 Tr
0924 KWOZ 103.3 AR Mountain View, Batesville ads &
slogan "Arkansas 103 KWOZ,"
(#1) 275
0948 KARK 97.7 AR Augusta, Beebe & Searcy ads
258
0949 KOEA 97.5 MO Doniphan, "KOE 97.5 FM"
208
0953 KSSN 95.7 AR Little Rock, "Kissin' 96 FM" 323
11/17 Tr
0234 unID 95.1 ?? ??, "Good Time Oldies" satellite
feed, local ID only as "Oldies
95.1" (argggg...)

12/1 Tr
0742 KOEA 97.5 MO Doniphan, local ad 208
0744 KAMS 95.1 AR Mammoth Spring, West Plains
(MO) ad 241
0847 unID 101.7 ?? ??, "77-101 and Q-105," k

#1 - First station heard on 103.3 besides local WKDF.
KWOZ fair over the null local. This leaves only 8
frequencies on which I've never logged a DX station.

From the editor



The Leonids shower was a bit
disappointing here, DX-wise, but was a great light
show for the family.
See y'all next month!

In June, 1945, the FCC ordered all FM radio be transferred from its 50 megacycle band to a new band of frequencies between 88 and 108 megacycles.

From that point on the qualities of FM, noise-suppression and the ability to carry the full frequency range of sound perceptible to the human ear has attracted a growing band of discriminating listeners and dedicated FM broadcasters. Finally, in 1961, the FCC authorized the use of a split-band system of stereophonic broadcasting over FM channels, a technique whose underlying feasibility Armstrong had demonstrated in an historic multiplexing experiment as early as 1934.

Hundreds of millions of radio sets equipped with FM are now in use in the U.S. The number of FM stations on the air now reaches 5000. FM has truly become the dominate radio/TV communications system in this country and should remain so through the rest of the century.

CHOOSING AN ANTENNA FOR FM

Before purchasing an FM antenna you must decide what type you really need. Define the problems you need to overcome and consider your location. The key to good FM/stereo reception is to get the maximum direct signal from the transmitter and minimum amount of reflected signal.

If you live in a metropolitan area or are located close to an FM transmitter, an antenna with sharp directivity is needed rather than a high-gain antenna. A good FM antenna should reject unwanted signals coming from a different direction or bouncing off obstructions. Good rejection depends on the antenna's front-to-back ratio and beam width. Front-to-back ratio is the antenna's sensitivity to signals coming at its rear. The higher the ratio, the better rejection of unwanted signals coming from behind. The beam width indicates the angle at the front of the antenna within which it can best receive the FM signal. A narrow beam width makes it difficult for unwanted signals to be received from the side.

From 2 to about 25 miles out is what is referred to as the "prime" FM reception area. Here, multipath distortion is less of a problem, and a medium gain antenna with a moderate beam width should be perfect. However, if you wish to receive FM stations in different directions you'd probably want a directional antenna with rotator.

From 20 to 40 miles out is the normal reception area, and an antenna with good gain is needed. Again, depending on the location of the FM transmitters, you may want a directional FM antenna with rotator.

If you are located more than 40 miles out you are in the "fringe" area. You'll need a "hot antenna," that is, one with high gain. If stations come in at the same or adjacent channels the antenna must be directional. Again, a rotator may be required. If the antenna alone doesn't provide enough gain, the use of a Winegard amplifier may be helpful.

VHF/FM AND VHF/UHF/FM ANTENNAS

Broadband television/FM antennas (broadband meaning more than one band of frequencies) are basically a compromise for FM but can be sufficient for local FM/ stereo reception. A broadband antenna has only about one-half the gain of a simple FM antenna. This difference would not be important in a prime reception area, but is highly significant if you're trying to receive long-distance FM signals. For best possible FM, we recommend you install a separate FM antenna.

BUILT-IN FM ANTENNA

The FM antenna built-in to your FM receiver can give you clear reception providing you are located in a strong signal area and there's an unobstructed signal path from the transmitter. But, it will not receive FM signals from a remote FM transmitter very well, nor will it reject multi-path reflections. If you own a high-quality FM tuner or receiver and want the best quality FM/ stereo sound, you need an external FM antenna.

USING A ROTATOR

For the discriminating FM buff who wishes to receive FM stations from different directions the use of a rotator is a "must." A highly directional, high gain antenna and rotor should be able to pull in 90% of all FM stations within 200 miles (depending on receiving antenna height and transmitting antenna height.)

The Millennium Sun-Spot Bug



Think that you have enough problems in coping with the Millennium Bug and your Y2K Conversion efforts? Well - Mother Nature also has a surprise in store come the Year 2000.

Sunspots. Solar Storms. Huge amounts of electro-magnetic radiation.

Every 11 years the sun goes through its sunspot cycle. However - this cycle - which is just now getting started and will peak in March of the Year 2000 - *will be one of the most intense ever, according to forecasters.*

What does this mean for you and me? Well - think of it this way. Many of the communication satellites, cellular networks, interconnected power grids, etc. were put into service at the nadir of the last solar cycle - so interference was at a minimum. The effects of radiation of these systems went largely unnoticed, because of the lack of intense radiation as well as the lack of systems to be damaged.

That is different today. As reported by **George Siscoe, Boston Astronomy Professor:** "*Since electrically enabled technology is getting more and more pervasive, the impact of it is going to be more noticeable.*"

How noticeable?

Well - count on poor TV reception for one thing. Satellites that beam the signals to and from the earth may be fried by the radiation - leaving holes in the service. *What is true for TV is also true for long distance telephone calls - and the the Internet* - or any communication sent via satellite. If the communication electronics fail in space - communications also suffer back here on earth.

Cellular communications will also suffer - and not just due to satellite outages. As the sun cranks up it energy output, the solar flares will be releasing that energy to the earth. That energy will be caught in our ionosphere, making that portion of the atmosphere much more electrically charged. Radio waves that would normally pass through the ionosphere will now be bent - or *skipped* - back towards the earth - causing interference with other transmissions. Cellular relay stations will have to contend with this phenomenon, as well as the corresponding crackling and hissing as the radiation peaks.

So... to put it in a nutshell, it seems that mother nature and technology will be butting heads. It promises to be an interesting match.

However - there is a bright side to all this. Ham radio operators will be working the "*skip*" with very good results. The 10 meter band will be wide open for long distance communications. The Aurora Borealis will be putting on shows big time. And with poor TV reception, reading books might just be the rage in the upcoming years. (But not on the beach. You see - with the ozone layer being depleted - all that extra radiation has to go someplace. *Hint: Buy some stock in sun tan lotion companies. Or aloe vera farms.*)



(SKIP: Skip is the phenomenon that occurs when the ionosphere become electrically charged with solar radiation. When the sun-spot cycle is at its high point or apogee, there is more radiation hitting that atmospheric layer, hence more electrically charged ions. Those ions act as a shield to radio waves - bending them back towards the earth, instead of letting them pass into the great void of space. Thus - as an example - when a Ham radio operator sends a 10 meter signal, those waves which would normally pass right through the atmosphere are bent back towards the earth, enabling a receiving station - many thousands of miles away - to capture the transmission. CB users will also experience the same phenomenon. Generally, the lower the frequency of the radio transmission the more noticeable.)